SANITAIRE®

GERMICIDAL ULTRAVIOLET ROOM AIR SANITIZERS

Model RS72

Model RSCS280A

Model RSM2680

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ABOUT US

GERMICIDAL ULTRAVIOLET

Germicidal Ultraviolet is a unique and rapid method of disinfection. It utilizes germicidal ultraviolet lamps producing ultraviolet wavelengths at 254 nanometers (nm)—a level that is lethal to bacteria, viruses, and other microorganisms.

An ever growing range of industries and consumer applications have found ultraviolet to be the ideal solution for their air and surface treatment needs.

Since 1963, we've been engineering and manufacturing germicidal ultraviolet equipment to prevent disease caused by contaminants in water, in air, and on surfaces. Our engineers bring each concept to a finished model, implementing stringent quality control procedures. Each product is manufactured with stainless steel and the highest quality materials to ensure the safety of personnel and room occupants. We stock an extensive inventory in our 37,500 square foot facility and ship throughout the world. Our knowledgeable team of UV-C specialists will provide effective and cost-conscious solutions for your home, business, industry, or institution.

Model RS140
free standing, wall or ceiling mount
in occupied areas

Model RSCS280A
recessed ceiling mount
in occupied areas

Model RSM2680
mobile, for use in
occupied areas

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MADE IN THE USA
FROM U.S. & IMPORTED PARTS

ADVANTAGES

Economical
System requires very little power to operate.

Safe
No risk of over-exposure.

Fast
Disinfects air in seconds.

Easy
Some models require no installation.

Automatic
Continuous disinfection without special attention.
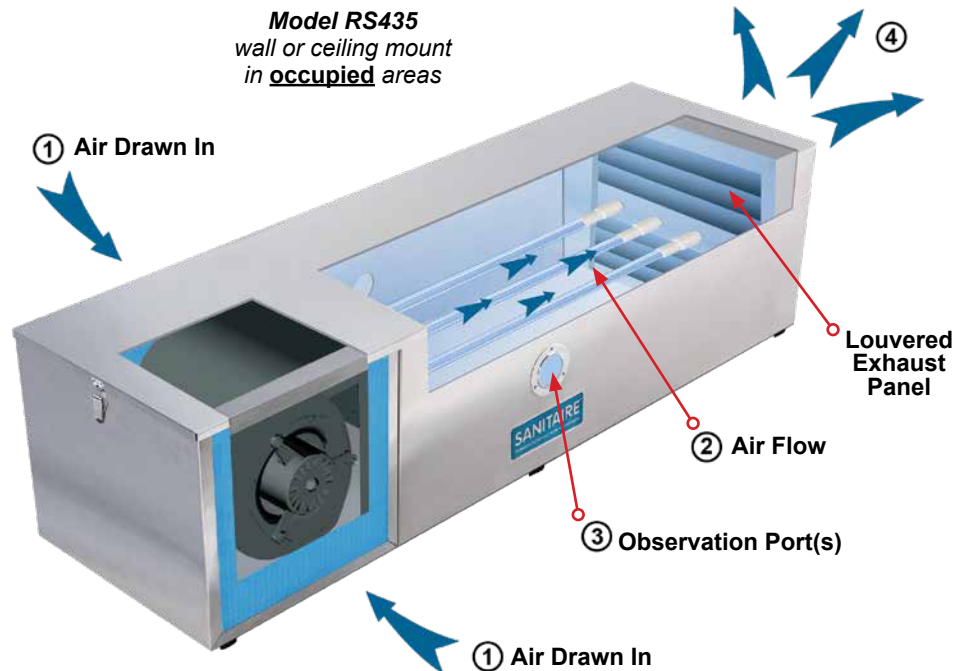
Durable
Polished stainless steel and aluminum.

Versatile
Numerous models available to handle various configurations, some models are relatively portable and can be applied to different **occupied** areas as needed.

Low Maintenance
Only requires routine cleaning or replacement of filter, along with annual lamp replacement.

The **SANITAIRE**® design has been carefully conceived to provide adequate germicidal ultraviolet exposure for air disinfection in **occupied** areas—particularly those that are crowded, poorly ventilated, or have a high risk of cross infection. The UV-C dose provided to air is a function of UV exposure time and the intensity of the lamps. Our UV application specialists would be happy to perform the necessary calculations to ensure the model we provide is appropriate for your particular application.

Model RS435
wall or ceiling mount
*in **occupied** areas*

① Air Drawn In
② Air Flow
③ Observation Port(s)
④
① Air Drawn In
Louvered Exhaust Panel

The operation of the **SANITAIRE**® is as follows:

① Air is drawn into **SANITAIRE**® model through the washable electrostatic particulate filters (except Model RSM2680 which utilizes disposable filters).

② The air is forced into the ultraviolet exposure chamber where it is irradiated by germicidal ultraviolet light (lamp quantity varies per model).

③ Observation port/sight glass provides positive indication of germicidal lamp operation.

④ The purified air exits the sanitizer, through the louvered exhaust panel, located at the opposite end of the sanitizer. In the case of the **SANITAIRE**® Model RSA760, once through the louvered exhaust panel, air is forced through a .3 micron HEPA filter and finally through an electrostatic particulate filter before exiting the sanitizer into **occupied** areas.

SANITAIRE® RS72, RS140, RS435, and RSA760 Germicidal Ultraviolet Free Standing, Wall, or Ceiling Mount Sanitizer

STER-L-RAY® Germicidal Ultraviolet Lamp(s)
Lamp(s) are instant starting and provide the utmost in quality, sustained output, and longevity (see page 11 for more information).

Interlock Safety Switch
The interlock safety switch is a standard feature that disconnects power to the model when the access panel is unhinged for lamp or filter replacement (located under the cover).

Surelite™ Ballast(s)
State-of-the-art electronic ballast specifically developed for the operation of ultraviolet lamps. Versatile ballast provides high lamp output; is lightweight, efficient, and operates cool for longer life.

Stainless Steel Enclosure
Manufactured in Type 304 stainless steel for unparalleled strength, durability, and an attractive finish. Safely encloses germicidal UV lamps for use in any application.

Steadfast™ Lampholders
Set includes a stationary and a spring-loaded, telescopic holder that holds a single pin lamp securely. The spring-loaded feature on one end facilitates convenient, quick and easy lamp changes.

Louvered Exhaust Panel
Protects the room's occupants from ultraviolet exposure by restricting ultraviolet radiation from passing into the room.

Polished Reflector
Interior surface is polished providing a highly reflective surface to maximize ultraviolet intensity within the chamber.

Model RS435

(See page 10 for optional accessories.)

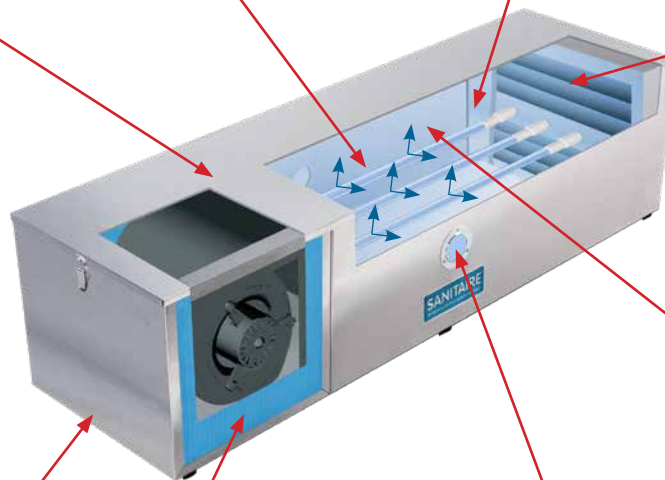### Promate™ Observation Port / Sight Glass Assembly
A Sight Glass Assembly allows for visual inspection of the lamp(s).

Promate™ Particulate Filter(s)
- Washable Electrostatic Filter (on all models)
- Absolute Filter - HEPA Type (on Model RSA760)

Promate™ Standard Wall Mount Kit
Consists of (2) pre-drilled stainless steel brackets. Brackets enable model to be mounted to wall in either the vertical or horizontal position (included).

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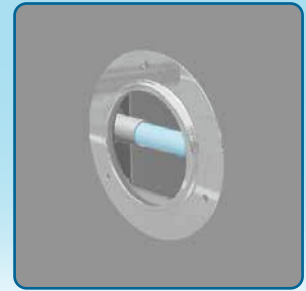
Figure 1 – SANITAIRE® RS140 (shown) For maximum efficiency, the SANITAIRE® should be located as centrally as possible, preferably not close to the floor or the corners of the **occupied** area to be treated.

The louvered exhaust panel of the SANITAIRE® Room Air Sanitizer restricts ultraviolet radiation from passing into the room, protecting the room's occupants from ultraviolet exposure.

RS72, RS140, RS435 and **RSA760** are commonly installed utilizing wall mounting brackets included with purchase. See page 10 for optional mounting brackets.

Promate™ Observation Port/ Sight Glass Assembly
A Sight Glass Assembly allows for visual inspection of the lamp(s).

SPECIFICATIONS—Sanitaire® RS72, RS140, RS435, and RSA760 Germicidal UV Air Sanitizer

Model	Nominal Model Capacity (cubic feet / minute) ①	Dimensions			Electrical Requirements* (amps) ②	Max. Room Size Treated at 3 Room Air Changes/Hour (cubic feet)	Max. Room Size Treated at 6 Room Air Changes/Hour (cubic feet)	Max. Treament Capacity (cubic feet / hour)
		Length	Width	Height				
RS72	54	34-1/2"	7-3/4"	7-3/4"	1.25	1,080	540	3,240
RS140	105	34-1/2"	7-3/4"	7-3/4"	2.30	2,100	1,050	6,300
RS435	326	47-5/16"	14"	12"	4.52	6,525	3,263	19,575
RSA760	380	61"	14"	12"	5.65	7,600	3,800	22,800

① Model capacity incorporates an estimated allowance for airflow friction loss across filter and model.
② Information listed refers to 120 Volt 60 Hz models. Contact factory for specifics on other voltages.
 * Consult factory with specific power requirements.

GENUINE *STER-L-RAY*® GERMICIDAL LAMP DATA

Model	Lamp No. (Quantity)	Lamp Length	Lamp Length (including lampholders)	Power ① Consumption	Ultraviolet Output (per lamp) ②	Rated Average Effective Life
RS72	05-1348-R (1)	21-7/8" (556 mm)	24"	30.7 Watts	8.5 Watts	10,000 Hours
RS140	05-1348-R (2)	21-7/8" (556 mm)	24"	61.4 Watts	8.5 Watts	10,000 Hours
RS435	05-1352-R (4)	27-7/8" (708 mm)	30"	153.6 Watts	11.2 Watts	10,000 Hours
RSA760	05-1352-R (4)	27-7/8" (708 mm)	30"	153.6 Watts	11.2 Watts	10,000 Hours

① Wattage is Lamp Watts and ballast loss (approximate).   ② Output at 254 nanometers at 100 hours and 80° F (approximate).

SANITAIRE® RSCS280A Germicidal Ultraviolet Recessed Ceiling Mount Sanitizer

STER-L-RAY® High Output Germicidal Ultraviolet Lamps
Lamps are instant starting and provide the utmost in quality, sustained output, and longevity (see page 11 for more information).

Steadfast™ Lampholders
Set includes a stationary holder that holds a four pin lamp securely.

Surelite™ Ballasts
State-of-the-art electronic ballasts specifically developed for the operation of ultraviolet lamps. Versatile ballasts provide high lamp output; are lightweight, efficient, and operate cool for longer life.

Louvered Exhaust Panel
Protects the room's occupants from ultraviolet exposure by restricting ultraviolet radiation from passing into the room.

Lamp Operation Indicators
(LEDs) Provide positive indication of each germicidal UV lamp operation.

Polished Reflector
Interior surface is polished providing a highly reflective surface to maximize ultraviolet intensity within the chamber.
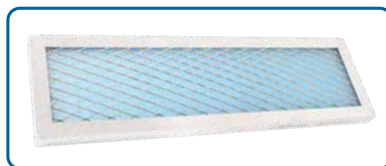
Model RSCS280A
(See page 10 for optional accessories.)

Stainless Steel Enclosure
Manufactured in Type 304 stainless steel for unparalleled strength, durability, and an attractive finish. Safely encloses germicidal UV lamps for use in any application.

Interlock Safety Switch
A standard feature that disconnects power to the model when the access panel is unhinged for lamp or filter replacement (located under the cover).

Promate™ Particulate Filter
Washable Electrostatic Filter

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Figure 2 – The **SANITAIRE**® **Model RSCS280A** (shown) is recommended for use in rooms with suspended "T-Bar" ceilings. Professional installation recommended.

SPECIFICATIONS—Sanitaire® RSCS280A
Recessed Ceiling Mount Germicidal UV Air Sanitizer

Model	Nominal Model Capacity (cubic feet / minute) ①	Dimensions			Electrical Requirements* (amps) ②	Max. Room Size Treated at 3 Room Air Changes/Hour (cubic feet)	Max. Room Size Treated at 6 Room Air Changes/Hour (cubic feet)	Max. Treament Capacity (cubic feet / hour)
		Length	Width	Height				
RSCS280A	210	46-5/8"	22-1/8"	9-7/16"	4.2	4,200	2,100	12,600

① Model capacity incorporates an estimated allowance for airflow friction loss across filter and model.
② Information listed refers to 120 Volt 60 Hz models. Contact factory for specifics on other voltages.
 * Consult factory with specific power requirements.

GENUINE *STER-L-RAY*® GERMICIDAL LAMP DATA

Model	Lamp No. (Quantity)	Lamp Length	Power ① Consumption	Ultraviolet Output (per lamp) ②	Rated Average Effective Life
RSCS280A	05-0497 (4)	27-7/8" (708 mm)	260 Watts	22 Watts	13,000 Hours

① Wattage is Lamp Watts only and does not include ballast loss.
② Output at 254 nanometers at 100 hours and 80° F (approximate).

SANITAIRE® RSM2680 Germicidal Ultraviolet Mobile Air Sanitizer

Louvered Exhaust Panel
Protects the room's occupants from germicidal ultraviolet exposure by restricting ultraviolet radiation from passing into the room.

STER-L-RAY® High Output Germicidal Ultraviolet Lamps
Lamps are instant starting and provide the utmost in quality, sustained output, and longevity (see page 11 for more information).

Surelite™ Ballasts
State-of-the-art electronic ballasts specifically developed for the operation of ultraviolet lamps. Versatile ballasts provide high lamp output; are lightweight, efficient, and operate cool for longer life.

Stainless Steel Enclosure
Manufactured in Type 304 stainless steel for unparalleled strength, durability, and an attractive finish. Safely encloses germicidal UV lamps for use in any application.

Polished Reflector
Interior surface is polished, providing a highly reflective surface to maximize germicidal ultraviolet intensity within the chamber (see operation diagram on next page).

Blower
Belt-driven blower produces more than 2,000 CFM for turnover of air in large rooms.

Locking Casters
The unit an be easily transported and made stationary when needed.

Monitoring Panel
Unit operation is monitored from the Front Access Door. Panel includes individual lamp monitoring, lamp and filter life monitoring, and unit display of operating hours.

Interlock Safety Switch
Protected access doors can only be opened with provided keys. If doors are opened when unit is in operation, the Interlock Safety Switch interrupts power to the sanitizer.

Keyed, 3-Position Power Switch
Power operation controlled by key access to ensure unit is controlled by authorized personnel only. Switch allows the operator to run the unit in two modes: Blower Only (left) or Lamps & Blower (right). The center position is OFF.

Cord Wrap
Provides convenient storage of 20′ power cord (located on back of unit).

Intake Grills (4) Using Promate™ Disposable Filters
Synthetic pleated air filters with a MERV 7 rating. Disposable filters are cost effective if frequent filter changes are necessary.
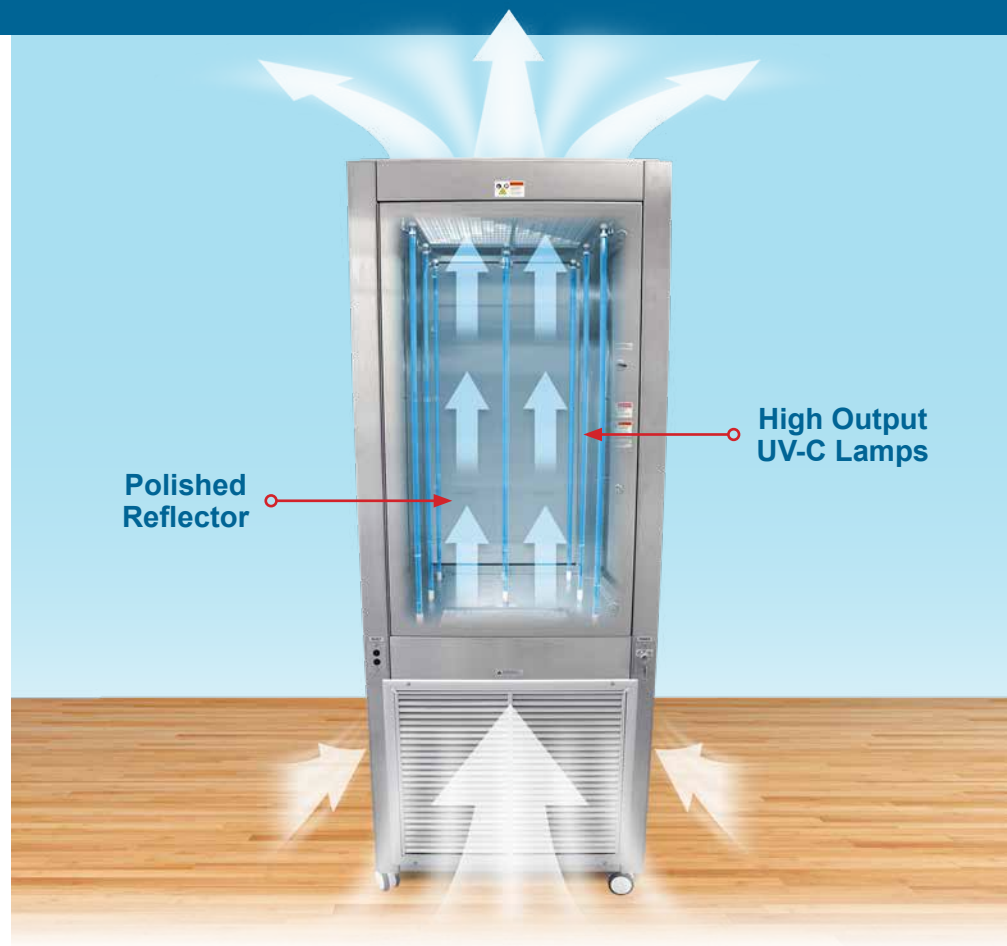

Model RSM2680
(See page 10 for optional accessories.)

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OPERATION

Figure 3 – **SANITAIRE**® **RSM2680** (shown) The Model RSM2680 Room Air Sanitizer is mobile, and requires no professional installation. Simply roll the unit into the **occupied** area to be treated and plug it into an appropriate power source. When in operation, air is drawn into the unit through the four louvered filter panels, located around the base of the unit. The air passes into the exposure chamber, where it is irradiated by eight (8) **STER-L-RAY**® High Output Germicidal Ultraviolet Lamps. The air then passes out of the unit, through the louvered exhaust panel, located on the top of the unit.

The louvered exhaust panel of the unit protects the room's occupants from germicidal ultraviolet exposure, by restricting ultraviolet radiation from passing into the **occupied** room.

High Output UV-C Lamps

Polished Reflector

SPECIFICATIONS—Sanitaire® RSM2680
Mobile Germicidal UV Air Sanitizer

Model	Nominal Model Capacity (cubic feet / minute) ①	Dimensions			Electrical Requirements* (amps) ②	Max. Room Size Treated at 3 Room Air Changes/Hour (cubic feet)	Max. Room Size Treated at 6 Room Air Changes/Hour (cubic feet)	Max. Treament Capacity (cubic feet / hour)
		Length	Width	Height				
RSM2680	2000	33"	31"	78-7/8"	12.00	40,000	20,000	120,000

① Model capacity incorporates an estimated allowance for airflow friction loss across filter and model.
② Information listed refers to 120 Volt 60 Hz models. Contact factory for specifics on other voltages.
 * Consult factory with specific power requirements.

GENUINE *STER-L-RAY*® GERMICIDAL LAMP DATA

Model	Lamp No. (Quantity)	Lamp Length	Power ① Consumption	Ultraviolet Output (per lamp) ②	Rated Average Effective Life
RSM2680	05-0864 (8)	41-3/16" (1046 mm)	752 Watts	35.0 Watts	13,000 Hours

① Wattage is Lamp Watts only and does not include ballast loss.
② Output at 254 nanometers at 100 hours and 80° F (approximate).

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OPTIONAL ACCESSORIES

SENTINEL® Germicidal Ultraviolet Lamp Operation Indicator*
The **SENTINEL**® Remote Lamp Indicator monitors lamp operation of one, two, or four lamp ultraviolet units and is available with a 25, 50 or 100 foot cable. (Available for ALL **SANITAIRE**® models, except for RSM2680, at the time of purchase. **SENTINEL**® output connector needs to be installed for easy plug-in and operation.)

Zenith™ Germicidal Ultraviolet Detector
The Zenith™ UV-C Detector is a sensitive hand-held, self-contained battery operated ultraviolet meter that can be used for:
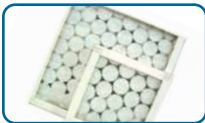• Monitoring UV-C Germicidal Lamp Intensity & Aging
• Measuring UV-C Germicidal Fixture Leakage
(Available for ALL **SANITAIRE**® models.)

ArmorLite™ Germicidal Ultraviolet Lamp Safety Shield
Protective coating applied to *STER-L-RAY*® Germicidal Lamps ensures protection for employees, products and work environments by eliminating the dangers associated with fragments of broken lamps. (Lamp on right has ArmorLite™ coating. Available for *STER-L-RAY*® Lamps used in ALL **SANITAIRE**® models at the time of purchase. The coating is installed at the factory.)

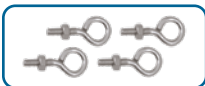### Promate™ Disposable Filters
Cost effective, filters for use when frequent filter changes are necessary. (Available for ALL **SANITAIRE**® models.)

Promate™ Optional Wall Mount Kit
Consists of (2) pre-drilled stainless steel brackets. Brackets are designed to provide a more aesthetic look for the installation while allowing model to be mounted to the wall in a horizontal position. (Available for **SANITAIRE**® Model RS72, RS140, RS435 and RSA760.)

Promate™ Ceiling Mount Kit
Consists of (4) eye bolts used to suspend model from ceiling. (Available for **SANITAIRE**® Model RS72, RS140, RS435 and RSA760.)

Promate™ Integral Elapsed Time Indicator*
The Elapsed Time Indicator is a real-time, non-resettable display of accumulated operating time. Useful for scheduling and recording maintenance and lamp replacement. (Available for ALL **SANITAIRE**® models.)

Promate™ Integral Key Lock Switch*
The Key Lock Switch will ensure tamper proof operation in either ON or OFF position. (Available for ALL **SANITAIRE**® models.)

Promate™ Safety Glasses
Safety eyewear **MUST** be used as general-purpose safety protection and for additional shielding from germicidal ultraviolet rays.
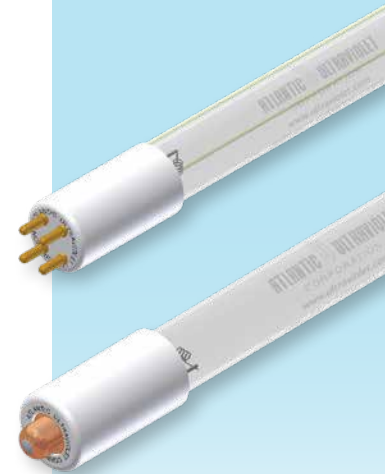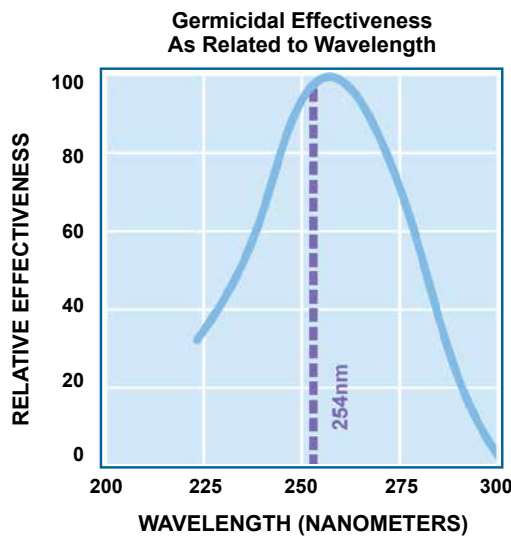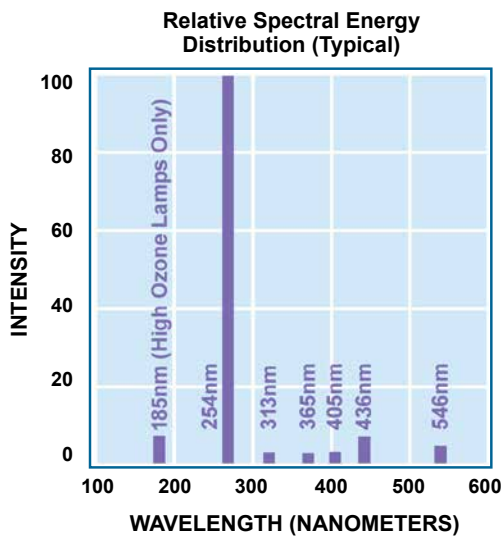
Promate™ Face Shield
Lightweight visor with adjustable headgear provides eye and face protection from germicidal ultraviolet rays.

* Item must be ordered at same time as **SANITAIRE**® Room Air Sanitizer (installed at factory).

APPLICATIONS

• *Office Buildings*
• *Waiting Rooms*
• *Laboratories*
• *Hospitals*
• *Clinics*
• *Maternity Areas*
• *Labor & Delivery Areas*
• *Pathology Labs*
• *Kidney Dialysis Labs*
• *Operating Rooms*
• *Methadone Clinics*
• *Burn Centers*
• *TB Clinics*
• *Homeless Shelters*
• *Prisons & Jails*
• *Detention Centers*
• *Nursing Homes*
• *Universities*
• *Schools*
• *Veterinary Clinics*
• *Animal Husbandry*
• *Kennels*
• *Food Industry*
• *Food Processing*
• *Dairy Processing*
• *Bakeries*
• *Auditorium*
• *Conference Rooms*
• *Ballrooms*
• *Gymnasiums*
• *Clean Rooms*
• *Pharmaceutical Mfg.*
• *Electronic Production*
• *Cosmetic Production*
• *Plus Countless Other Facilities*

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GENUINE *STER-L-RAY*® GERMICIDAL LAMPS

Relative Spectral Energy Distribution (Typical)

INTENSITY vs WAVELENGTH (NANOMETERS)

185nm (High Ozone Lamps Only), 254nm, 313nm, 365nm, 405nm, 436nm, 546nm

Germicidal Effectiveness As Related to Wavelength

RELATIVE EFFECTIVENESS vs WAVELENGTH (NANOMETERS)

254nm

STER-L-RAY® **Germicidal Lamps** are shortwave, low pressure tubes that produce ultraviolet wavelengths lethal to microorganisms. Approximately 95% of the ultraviolet energy emitted from *STER-L-RAY*® germicidal lamps is at 254 nanometers, the region of germicidal effectiveness most destructive to bacteria, mold and virus.

STER-L-RAY® and the *STER-L-RAY*® logo are trademarks of Atlantic Ultraviolet Corporation.

CAUTION: Exposure to direct or reflected germicidal ultraviolet rays will cause painful eye irritation and reddening of the skin. Personnel subject to such exposure must wear suitable face shield, gloves and protective clothing.

Hg – LAMP CONTAINS MERCURY, manage in accord with disposal laws, see: LampRecycle.org.

ULTRAVIOLET DOSAGE

Germicidal ultraviolet lamps provide effective protection against microorganisms. A small cross-section is shown below.

ORGANISM	ALTERNATE NAME	TYPE	DISEASE	DOSE*
Corynebacterium diphtheriae	*C. diphtheriae*	Bacterium	Diphtheria	6.50
Legionella pneumophila	*L. pneumophila*	Bacterium	Legionnaire's Disease	12.30
Mycobacterium tuberculosis	*M. tuberculosis*	Bacterium	Tuberculosis (TB)	10.0
Pseudomonas aeruginosa	*P. aeruginosa*	Bacterium		3.90
Serratia marcescens	*S. marcescens*	Bacterium		6.160
Staphlylococcus aureus	*S. aureus*	Bacterium	Pneumonia, Endocarditis, Sepsis	6.60
Methicillin-resistant Staphylococcus aureus	*MRSA*	Bacterium	Pneumonia, Endocarditis, Sepsis	6.50
Staphlylococcus epidermidis	*S. epidermidis*	Bacterium	Endocarditis, Sepsis	5.80
Streptococcus pyogenes	Strep	Bacterium	Strep Throat	.80
Clostridium difficile	*C. diff*	Spore	Colitis	16.0
Adenovirus		Virus	Common Cold	4.50
Coxsackie A2		Virus	Hand, Foot, and Mouth Disease, Conjunctivitis, Meningitis	6.30
Influenza		Virus	Flu	1.20
SARS-CoV-2		Virus	COVID-19	5.0
Morbillivirus hominis	Measles virus, MeV	Virus	Measles, rubeola	4.40

*Nominal Ultraviolet dosage (mJ/cm^2) necessary to inactivate better than 99% of specific microorganism.
Visit Ultraviolet.com/microorganisms-inactivated for complete listing.

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1963–2023
60 YEARS

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Hauppauge, NY 11788

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