

# *Sani***LIGHT**<sup>®</sup>

GERMICIDAL ULTRAVIOLET IRRADIATORS

*Model D24-1S*



*Model D24-2S*



SINCE 1963

**ATLANTIC  
ULTRAVIOLET  
CORPORATION<sup>®</sup>**

## ABOUT US



**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.

## 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 disinfection to be the ideal solution for their air and surface treatment needs.



**Model D24-1S**

Shown with standard instant start germicidal lamps. Also available with cold cathode and high output instant start lamps.



**Model D24-2S**

# PRINCIPLE OF OPERATION

## ADVANTAGES

### Effective

Virtually all microorganisms are susceptible to **SaniLight®** ultraviolet disinfection.

### Economical

Fixtures require very little power to operate.

### Fast

Disinfects both air and exposed surfaces in seconds.

### Easy

Simple installation and maintenance.

### Automatic

Continuous disinfection without special attention.

### Durable

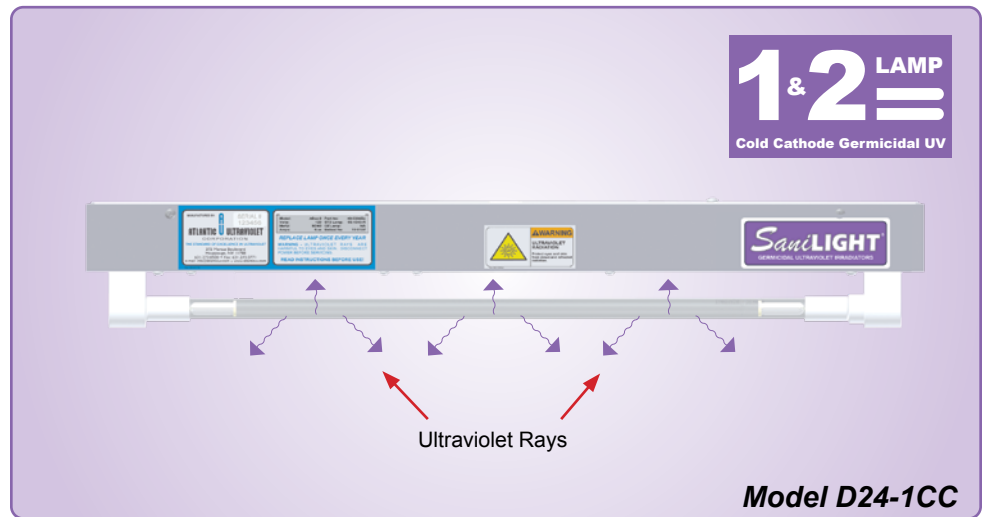
Polished stainless steel type 304.

### Versatile

Numerous models available to handle various applications.

### Low Maintenance

Only routine cleaning and annual lamp replacement are required.



**Figure 1** – Circulated room air and any exposed surfaces are irradiated with direct germicidal ultraviolet rays. Shown with cold cathode germicidal lamps. Also available with high output and instant start germicidal ultraviolet lamps.

The **SaniLight®** Germicidal Ultraviolet Irradiator design has been carefully conceived to provide direct germicidal ultraviolet exposure for air or surface disinfection. The stainless steel fixture should be used in open, **unoccupied** space to disinfect and prevent areas and surfaces from microorganisms such as bacteria, mold, and viruses. The treatment is very effective when there is a long, unobstructed path of germicidal ultraviolet (UV-C) rays. The UV-C dose provided to air and surfaces 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 fixture selected is appropriate for your particular application.

**SaniLight®** Germicidal Ultraviolet Irradiators should be utilized during periods when the room is **unoccupied** or when occupants take appropriate protective measures.

### Model DHO24-1S with Lamp Guard



Shown with high output germicidal lamp. Also available with cold cathode and instant start lamps.

All **SaniLight®** Models are available with optional Lamp Guard. This wire form lamp guard helps protect lamps(s) from accidental breakage. (See page 8 for sample of Applications and page 10 for Optional Accessories.)



## SaniLight® Instant Start Germicidal Ultraviolet Irradiator

### Surelite™ Electronic Ballast

State-of-the-art electronic ballasts are designed specifically to operate ultraviolet lamps.

**Surelite™** Electronic Ballasts offer these advantages over conventional ballasts:

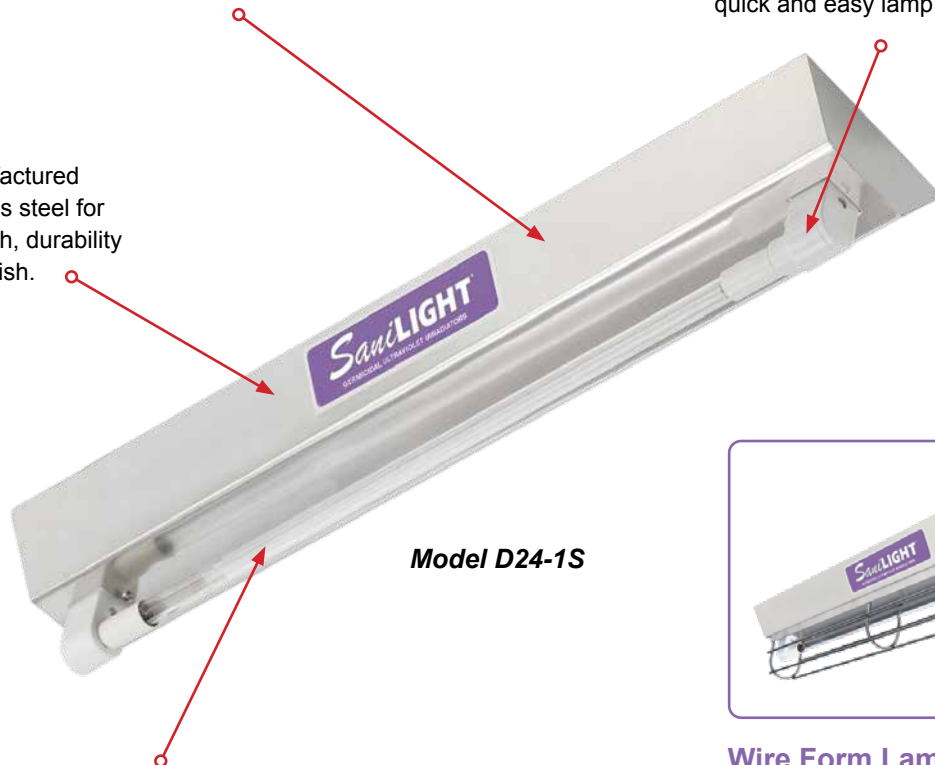
- Deliver high UV lamp output
- Lightweight
- Operate cool for longer life
- Versatile—each operates a wide range of lamps
- Save energy through high efficiency
- Provide silent operation

### Steadfast™ Lampholder

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.

### Stainless Steel Construction

The fixture is manufactured in Type 304 stainless steel for unparalleled strength, durability and an attractive finish.



**Model D24-1S**



### STER-L-RAY® Instant Start Germicidal Lamp

Lamps are instant starting and provide the utmost in quality, sustained output, and longevity.(See page 11 for information.)

### Wire Form Lamp Guard (optional)

Helps protect lamp(s) from accidental breakage. Must be ordered at same time as fixture. (See page 10 for all optional accessories.)

## APPLICATIONS\*

Laboratories • Hospitals • Clinics • Maternity Areas • Labor and Delivery Areas • Pathology Labs  
Kidney Dialysis Labs • Operating Rooms • Methadone Clinics • Burn Centers • TB Clinics • Homeless Shelters  
Prisons and Jails • Detention Centers • Nursing Homes • Universities • Schools • Veterinary Clinics  
Animal Husbandry • Kennels • Food Industry • Food Processing • Dairy Processing • Bakeries • Office Buildings  
Conference Rooms • Clean Rooms • Pharmaceutical Mfg. • Electronic Production • Cosmetic Production  
Manufacturing Facilities • Morgues • Conveyor Belt Systems

\* Other Applications Possible. Contact our Ultraviolet Application Specialists.



**Figure 2** – SaniLight® Instant Start Germicidal Ultraviolet Irradiator D24-2S is shown above

Proper placement of the SaniLight® Instant Start Germicidal Ultraviolet Irradiator is essential to ensure safe and effective operation. The location should have an appropriate power source, not be mounted under any source of moisture or condensation, and be easily accessible—allowing enough clearance for routine cleaning or maintenance.

## SPECIFICATIONS—SaniLight® Instant Start Germicidal Ultraviolet Irradiators

Model	Lamp (Quantity)	Power Consumption ①	Total Ultraviolet Output ②	Dimensions (Inches)			Rated Lamp Life (Hours)
				Length	Width	Height	
D12-1S	05-1500-R (1)	12.0 Watts	3.1 Watts	13-1/4"	5"	3-3/4"	10,000
D18-1S	05-1340-R (1)	22.0 Watts	5.8 Watts	19-1/4"	5"	3-3/4"	10,000
D24-1S	05-1348-R (1)	30.7 Watts	8.5 Watts	25-1/4"	5"	3-3/4"	10,000
D30-1S	05-1352-R (1)	38.4 Watts	11.2 Watts	31-1/4"	5"	3-3/4"	10,000
D36-1S	05-1343-R (1)	42.9 Watts	13.8 Watts	37-1/4"	5"	3-3/4"	10,000
D48-1S	05-1334-R (1)	66.0 Watts	19.3 Watts	49-1/4"	5"	3-3/4"	10,000
D64-1S	05-1338A-R (1)	94.0 Watts	25.0 Watts	65-1/4"	5"	3-3/4"	10,000
D12-2S	05-1500-R (2)	24.0 Watts	6.2 Watts	13-1/4"	5-5/8"	3-3/4"	10,000
D18-2S	05-1340-R (2)	44.0 Watts	11.6 Watts	19-1/4"	5-5/8"	3-3/4"	10,000
D24-2S	05-1348-R (2)	61.4 Watts	17.0 Watts	25-1/4"	5-5/8"	3-3/4"	10,000
D30-2S	05-1352-R (2)	76.8 Watts	22.4 Watts	31-1/4"	5-5/8"	3-3/4"	10,000
D36-2S	05-1343-R (2)	85.8 Watts	27.6 Watts	37-1/4"	5-5/8"	3-3/4"	10,000
D48-2S	05-1334-R (2)	132.0 Watts	38.6 Watts	49-1/4"	5-5/8"	3-3/4"	10,000
D64-2S	05-1338A-R (2)	188.0 Watts	50.0 Watts	65-1/4"	5-5/8"	3-3/4"	10,000

① Total power consumption including ballast loss.

② Ultraviolet Output at 254 nanometers at 100 hours and 80 degrees F (approximate).

- 120 Volts 50/60 Hz and 230 Volts 50/60 Hz models are standard - specify when ordering.
- Fixtures are available in various voltages - Consult factory with specific power requirements.
- Models with other lamp quantities and configurations available. Consult factory with specific requirements.

## SaniLight® Cold Cathode Germicidal Ultraviolet Irradiator

### Surelite™ Electronic Ballast

State-of-the-art electronic ballasts are designed specifically to operate ultraviolet lamps.

Surelite™ Electronic Ballasts offer these advantages over conventional ballasts:

- Deliver high UV lamp output
- Lightweight
- Operate cool for longer life
- Versatile—each operates a wide range of lamps
- Save energy through high efficiency
- Provide silent operation

### Steadfast™ Lampholder

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.

### Stainless Steel Construction

The fixture is manufactured in Type 304 stainless steel for unparalleled strength, durability and an attractive finish.



Model D24-1CC



### STER-L-RAY® Cold Cathode Germicidal Lamp

Lamp utilizes large cylindrical cathodes instead of tungsten filaments. Cold Cathode lamps are recommended for applications where temperature is colder than standard room temperature, for example, walk-in refrigerators and holding rooms. (See page 11 for information.)

### Wire Form Lamp Guard (optional)

Helps protect lamp(s) from accidental breakage. Must be ordered at same time as fixture. (See page 10 for all optional accessories.)

## APPLICATIONS\*

Best used for applications where frequent starting and stopping is required and where fixtures must be operated in cooler temperatures.

Cool Rooms • Meat Lockers, Refrigeration Units • Freezers • Holding Rooms

\* Other Applications Possible. Contact our Ultraviolet Application Specialists.



**Figure 3** – SaniLight® Cold Cathode Germicidal Ultraviolet Irradiator D24-2CC is shown above

Proper placement of the SaniLight® Cold Cathode Germicidal Ultraviolet Irradiator is essential to ensure safe and effective operation. The location should have an appropriate power source, not be mounted under any source of moisture or condensation, and be easily accessible—allowing enough clearance for routine cleaning or maintenance. Cold Cathode Lamps are recommended for walk-in refrigerators and holding rooms and are also employed in applications where frequent starting is a requirement.

## SPECIFICATIONS—SaniLight® Cold Cathode Germicidal Ultraviolet Irradiators

Model	Lamp (Quantity)	Power Consumption ①	Total Ultraviolet Output ②	Dimensions (Inches)			Rated Lamp Life (Hours)
				Length	Width	Height	
D12-1CC	05-0052A (1)	18.8 Watts	1.4 Watts	13-1/4"	5"	3-3/4"	20,000
D18-1CC	05-0040-R (1)	26.3 Watts	3.2 Watts	19-1/4"	5"	3-3/4"	20,000
D24-1CC	05-1118-R (1)	28.8 Watts	5.0 Watts	25-1/4"	5"	3-3/4"	20,000
D36-1CC	05-0044-R (1)	35.0 Watts	8.5 Watts	37-1/4"	5"	3-3/4"	20,000
D48-1CC	05-0042-R (1)	42.5 Watts	11.2 Watts	49-1/4"	5"	3-3/4"	20,000
D18-2CC	05-0040-R (2)	52.6 Watts	6.4 Watts	19-1/4"	5-5/8"	3-3/4"	20,000
D24-2CC	05-1118-R (2)	57.6 Watts	10.0 Watts	25-1/4"	5-5/8"	3-3/4"	20,000
D36-2CC	05-0044-R (2)	70.0 Watts	17.0 Watts	37-1/4"	5-5/8"	3-3/4"	20,000
D48-2CC	05-0042-R (2)	85.0 Watts	22.4 Watts	49-1/4"	5-5/8"	3-3/4"	20,000

① Total power consumption including ballast loss.

② Ultraviolet Output at 254 nanometers at 100 hours and 80 degrees F (approximate).

- 120 Volts 50/60 Hz and 230 Volts 50/60 Hz models are standard - specify when ordering.
- Fixtures are available in various voltages - Consult factory with specific power requirements.
- Models with other lamp quantities and configurations available. Consult factory with specific requirements.

## SaniLight® High Output Germicidal Ultraviolet Irradiator

### Surelite™ Electronic Ballast

State-of-the-art electronic ballasts are designed specifically to operate ultraviolet lamps.

Surelite™ Electronic Ballasts offer these advantages over conventional ballasts:

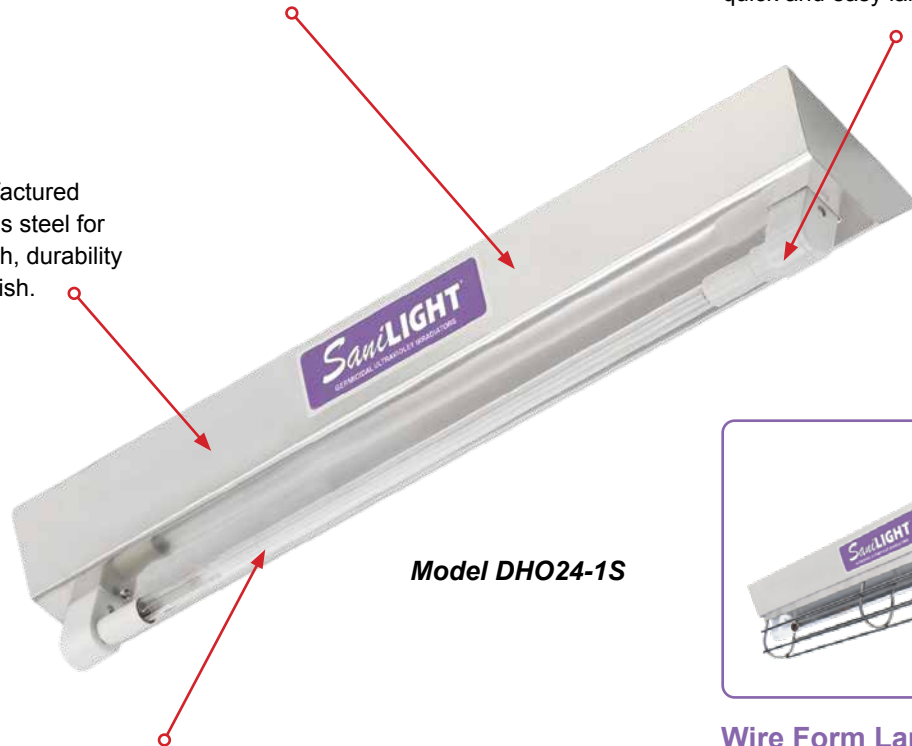
- Deliver high UV lamp output
- Lightweight
- Operate cool for longer life
- Versatile—each operates a wide range of lamps
- Save energy through high efficiency
- Provide silent operation

### Steadfast™ Lampholder

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.

### Stainless Steel Construction

The fixture is manufactured in Type 304 stainless steel for unparalleled strength, durability and an attractive finish.



**Model DHO24-1S**



### STER-L-RAY® High Output Germicidal Lamp

Lamp provides the utmost in quality, sustained output, and longevity. Yields more UV watts than standard UV-C lamps of the same length. (See page 11 for information.)

### Wire Form Lamp Guard (optional)

Helps protect lamp(s) from accidental breakage. Must be ordered at same time as fixture. (See page 10 for all optional accessories.)

## APPLICATIONS\*

Laboratories • Hospitals • Clinics • Maternity Areas • Labor and Delivery Areas • Pathology Labs  
Kidney Dialysis Labs • Operating Rooms • Methadone Clinics • Burn Centers • TB Clinics • Homeless Shelters  
Prisons and Jails • Detention Centers • Nursing Homes • Universities • Schools • Veterinary Clinics  
Animal Husbandry • Kennels • Food Industry • Food Processing • Dairy Processing • Bakeries • Office Buildings  
Conference Rooms • Clean Rooms • Pharmaceutical Mfg. • Electronic Production • Cosmetic Production  
Manufacturing Facilities • Morgues • Conveyor Belt Systems

\* Other Applications Possible. Contact our Ultraviolet Application Specialists.



**Figure 4** – SaniLight® High Output Germicidal Ultraviolet Irradiator DHO24-2S is shown above

Proper placement of SaniLight® High Output Germicidal Ultraviolet Irradiator is essential to ensure safe and effective operation. The location should have an appropriate power source, not be mounted under any source of moisture or condensation, and be easily accessible—allowing enough clearance for routine cleaning or maintenance.

## SPECIFICATIONS—SaniLight® High Output Germicidal Ultraviolet Irradiators

Model	Lamp (Quantity)	Power Consumption ①	Total Ultraviolet Output ②	Dimensions (Inches)			Rated Lamp Life (Hours)
				Length	Width	Height	
DHO18-1S	05-0687 (1)	58.0 Watts	11.5 Watts	19-1/4"	5"	3-3/4"	13,000
DHO24-1S	05-0686 (1)	73.7 Watts	17.0 Watts	25-1/4"	5"	3-3/4"	13,000
DHO30-1S	05-0685 (1)	92.2 Watts	23.0 Watts	31-1/4"	5"	3-3/4"	13,000
DHO36-1S	05-1060-R (1)	108.0 Watts	28.0 Watts	37-1/4"	5"	3-3/4"	13,000
DHO48-1S	05-0576 (1)	158.4 Watts	40.0 Watts	49-1/4"	5"	3-3/4"	13,000
DHO64-1S	05-0690 (1)	193.0 Watts	54.0 Watts	65-1/4"	5"	3-3/4"	13,000
DHO18-2S	05-0687 (2)	116.0 Watts	23.0 Watts	19-1/4"	5-5/8"	3-3/4"	13,000
DHO24-2S	05-0686 (2)	147.4 Watts	34.0 Watts	25-1/4"	5-5/8"	3-3/4"	13,000
DHO30-2S	05-0685 (2)	184.3 Watts	46.0 Watts	31-1/4"	5-5/8"	3-3/4"	13,000
DHO36-2S	05-1060-R (2)	216.0 Watts	56.0 Watts	37-1/4"	5-5/8"	3-3/4"	13,000
DHO48-2S	05-0576 (2)	316.8 Watts	80.0 Watts	49-1/4"	5-5/8"	3-3/4"	13,000
DHO64-2S	05-0690 (2)	386.0 Watts	108.0 Watts	65-1/4"	5-5/8"	3-3/4"	13,000

① Total power consumption including ballast loss.

② Ultraviolet Output at 254 nanometers at 100 hours and 80 degrees F (approximate).

- 120 Volts 50/60 Hz and 230 Volts 50/60 Hz models are standard - specify when ordering.
- Fixtures are available in various voltages - Consult factory with specific power requirements.
- Models with other lamp quantities and configurations available. Consult factory with specific requirements.

## OPTIONAL ACCESSORIES



### SENTINEL® Germicidal UV Lamp Indicator \*

The **SENTINEL**® Remote Lamp Indicator monitors lamp operation of one, two, or four lamp ultraviolet fixtures and is available with a 25, 50, or 100 foot cable. (\*Available for All **SaniLight**® fixtures, but must be ordered at same time as fixture. Installed in factory.)



### ArmorLite™ Germicidal UV Lamp Safety Shield

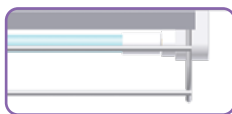
Protective coating applied to **STER-L-RAY**® Germicidal Lamps ensures protection for employees, products, and work environments by eliminating dangers associated with broken lamp fragments. (Lamp on right has **ArmorLite**™ coating. Available for **STER-L-RAY**® lamps used in ALL **SaniLight**® fixtures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



### Zenith™ Germicidal Ultraviolet Detector

The **Zenith**™ UV-C Detector is a sensitive hand-held, self-contained, battery operated meter that can be used for:

- Monitoring UV-C Germicidal Lamp Intensity & Aging
- Measuring UV-C Germicidal Fixture Leakage



### Wire Form Lamp Guard \*

Wire form lamp guard helps protect lamp(s) from accidental breakage. (\*Available for All **SaniLight**® fixtures at the time of purchase. **Wire Form Lamp Guard** needs to be installed in factory.)



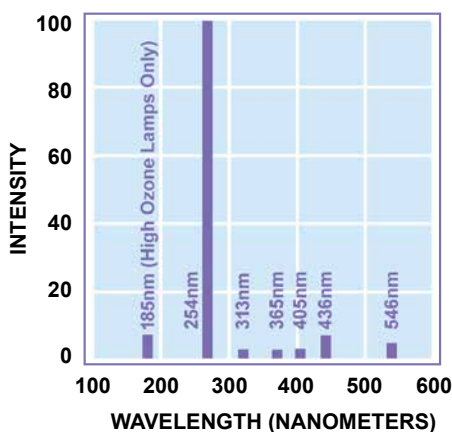
### Promate™ Danger Signs

To be affixed to entry door(s) to warn that an ultraviolet sanitizer is in use and that the treatment area **MUST** not be entered. **SaniLight**® is for use only in **unoccupied** areas. 2 signs are supplied with each fixture.

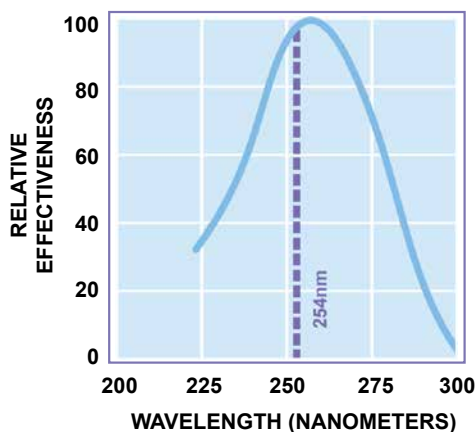
**NOTE:** Danger Signs have English on one side and Spanish on the other.

## OPERATING CHARACTERISTICS

Relative Spectral Energy Distribution (Typical)



Germicidal Effectiveness As Related to Wavelength



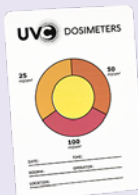
### Assure™ UV-C Dosimeter

A portable, full-featured instrument that provides highly-accurate UV-C measurements in mJ/cm². Sits upright, on back or side, and can be placed in supplied wall holder. Uses 1 AAA battery.



### UV-C Dosimeter Card

Contains a patented colorimetric indicator that changes color at 25, 50, and 100 mJ/cm² to visibly confirm that your **SaniLight**® is achieving the desired UV-C exposure. Each card is designed for 1 treatment cycle and **CANNOT** be reused.



### Personal UV-C Exposure Indicators

These indicators change color to reveal the word "STOP" if personnel are exposed to an accumulated dose of 6 mJ/cm² of UV-C irradiation. Adhesive backing sticks to clothing. Available in packs of 10. Designed for single, daily use and **CANNOT** be reused.



### Promate™ Safety Glasses

Safety eyewear should be used as general-purpose safety protection and for additional shielding from germicidal UV rays.



### Promate™ Face Shield

Lightweight visor with adjustable headgear provides eye and face protection from germicidal ultraviolet rays.



# GENUINE **STER-L-RAY®** GERMICIDAL LAMPS

**STER-L-RAY® Germicidal UV 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 viruses.

**STER-L-RAY® Instant Start Germicidal UV Lamps** utilize tungsten filaments. Lamp life is governed by the life of the filaments and is affected by the frequency of starting. **STER-L-RAY®** lamps are well suited for a variety of air and surface applications.

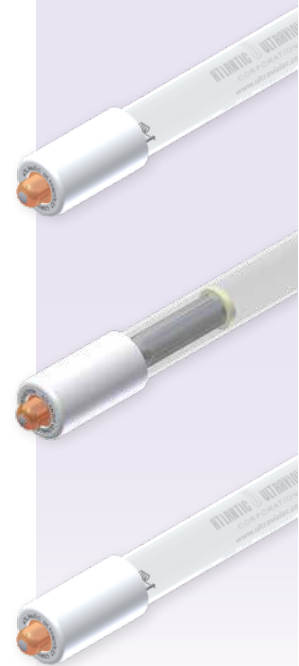
**STER-L-RAY® Cold Cathode Germicidal UV Lamps** are instant starting and utilize a large, cylindrical cathode instead of a tungsten filament. Due to this construction, the lamp is not adversely affected by frequent starting and the life is significantly longer than that of other lamp types. They maintain a high ultraviolet output, even at reduced temperatures.

**STER-L-RAY® High Output (HO) Germicidal UV Lamps** are similar in size and shape to conventional germicidal UV lamps but are capable of operating at higher UV output. The HO lamps yield more UV watts than standard UV-C lamps of the same length. Lamp life is governed by the life of the filaments and is affected by the frequency of starting. **STER-L-RAY®** High Output Lamps are well suited for a variety of air and surface applications which require high output ultraviolet intensity.

**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](http://LampRecycle.org).



## GERMICIDAL ULTRAVIOLET DOSAGE

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

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

\* Nominal Ultraviolet dosage (mJ/cm<sup>2</sup>) necessary to inactivate better than 99% of specific microorganism. Visit [Ultraviolet.com/microorganisms-inactivated](http://Ultraviolet.com/microorganisms-inactivated) for complete listing.



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**E-MAIL:**  
[Sales@AtlanticUV.com](mailto:Sales@AtlanticUV.com)

**LEARN:**  
[Ultraviolet.com](http://Ultraviolet.com)

**SHOP:**  
[AtlanticUltraviolet.com](http://AtlanticUltraviolet.com)



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**GERMICIDAL ULTRAVIOLET EQUIPMENT & LAMPS • MANUFACTURERS / ENGINEERS / SALES / SERVICE**

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