

Biolux®

GERMICIDAL ULTRAVIOLET FIXTURES

Strip Fixture



*Model
NO6GS*



*Model
NO4G*



WE10 Fixture



A SINCE 1963
ATLANTIC U ULTRAVIOLET
CORPORATION®

ABOUT US

Since 1963, Atlantic Ultraviolet Corporation® has pioneered the discovery and development of beneficial uses of ultraviolet energy. Over the years

these efforts have led to the

development of valuable, cost effective and environmentally sound techniques and products now known and respected throughout the world.

The UV Application Specialists at Atlantic Ultraviolet Corporation® assist customers in the selection of germicidal lamps and equipment. Their specialized knowledge is a valuable resource in formulating effective and cost-conscious ultraviolet solutions. Extensive inventories and a dedicated staff enable Atlantic Ultraviolet Corporation® to fulfill its commitment to provide fast deliveries and responsive customer service.



GERMICIDAL ULTRAVIOLET

Ultraviolet is a unique and rapid method of disinfection. It utilizes germicidal ultraviolet lamps producing short-wave radiation at 254 nanometers (nm)—a wavelength highly lethal to bacteria, virus, 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.

Atlantic Ultraviolet Corporation® equipment and systems are manufactured in the USA.



**NO6GS
Stand Fixture**



**8 Watt
Strip Fixture**

ADVANTAGES

Effective

Virtually all microorganisms are susceptible to **Biolux®** 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

Stainless Steel - Polished Chrome -
Aluminum Construction.

Versatile

Numerous models available to handle various applications.

Low Maintenance

Routine cleaning and annual lamp replacement is required.

PRINCIPLE OF OPERATION

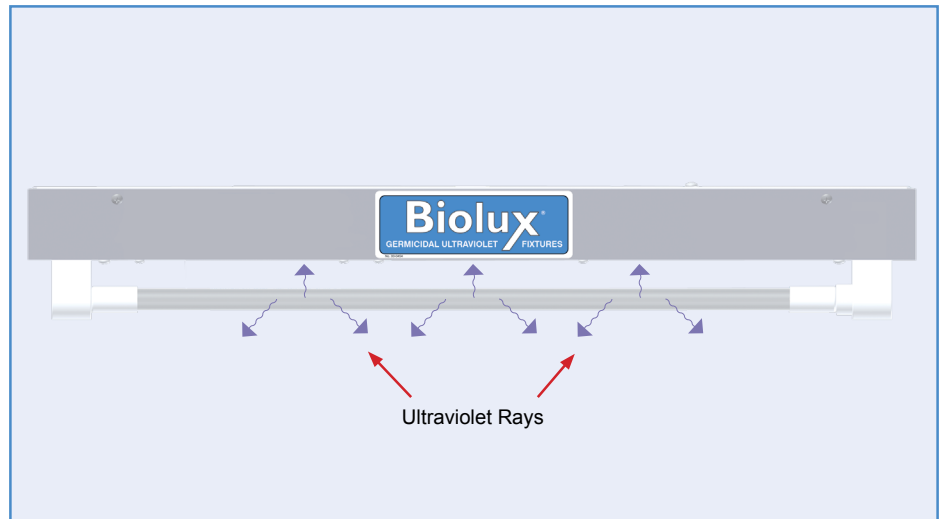


Figure 1 - Circulated room air and any exposed surfaces are irradiated with direct germicidal ultraviolet rays.

The **Biolux®** line of germicidal ultraviolet fixtures has been carefully designed to provide direct ultraviolet exposure for air and/or surface disinfection.

Biolux® Germicidal Fixtures use short-wave (254 nm) ultraviolet lamps (also referred to as uvc or germicidal ultraviolet) in various style equipment to deactivate a wide range of microorganisms.

Hand held or stand style fixtures (NO4G, NO4GS, NO6G, NO6GS) are ideal for spot disinfection. These fixtures require no set up or installation and are ready to use out of the carton.

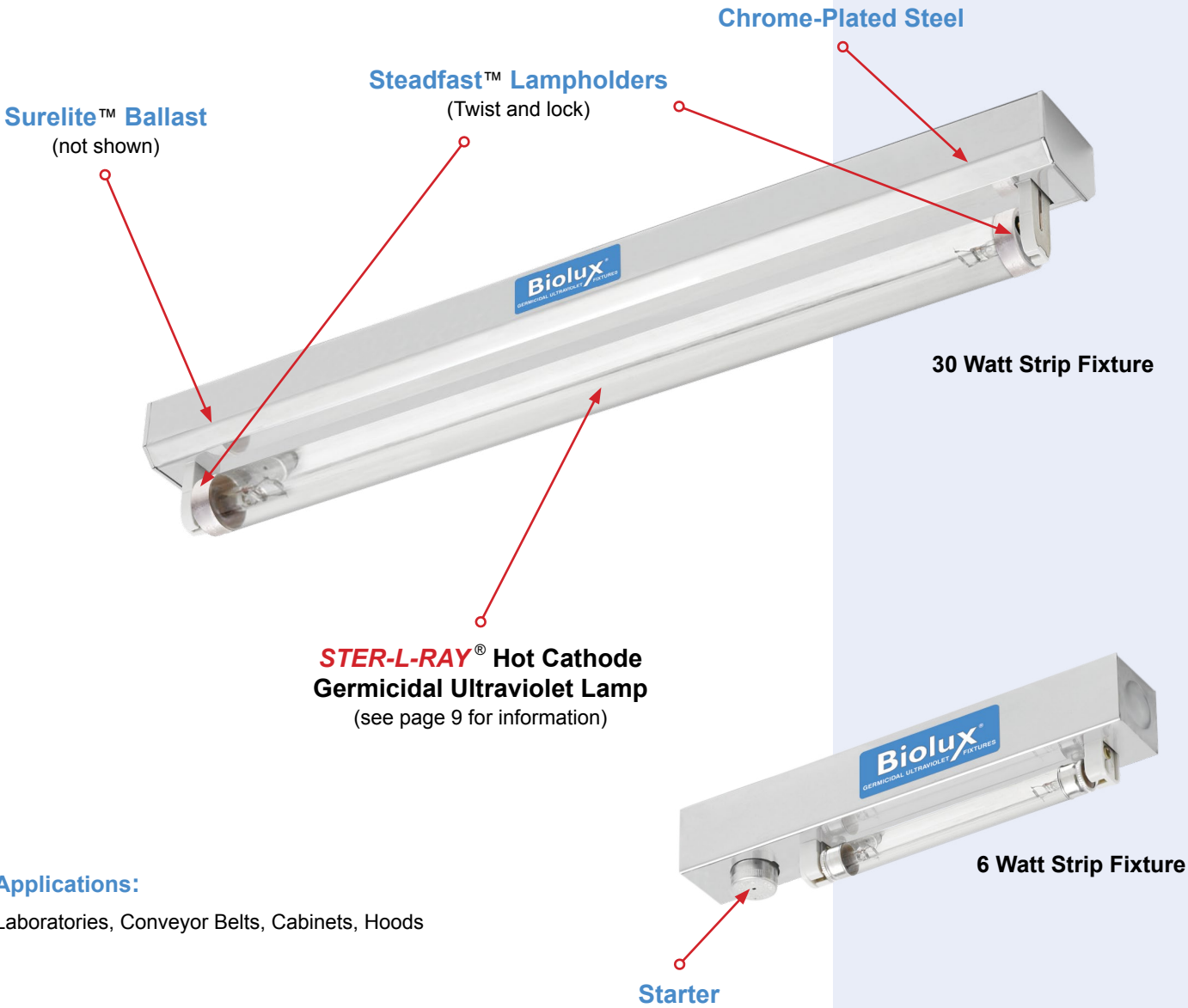
The 4 watt through 30 watt strip style fixtures are ideal for a more permanent installation where disinfection will be necessary and constant. Applications include but are not limited to conveyor belts, disinfection cabinets and laboratory hoods.

Biolux® Germicidal Fixtures should be utilized when space is unoccupied or when user and occupants take appropriate protective measures.

SPECIAL FEATURES—STRIP FIXTURES

Biolux® Germicidal Ultraviolet Strip Fixture

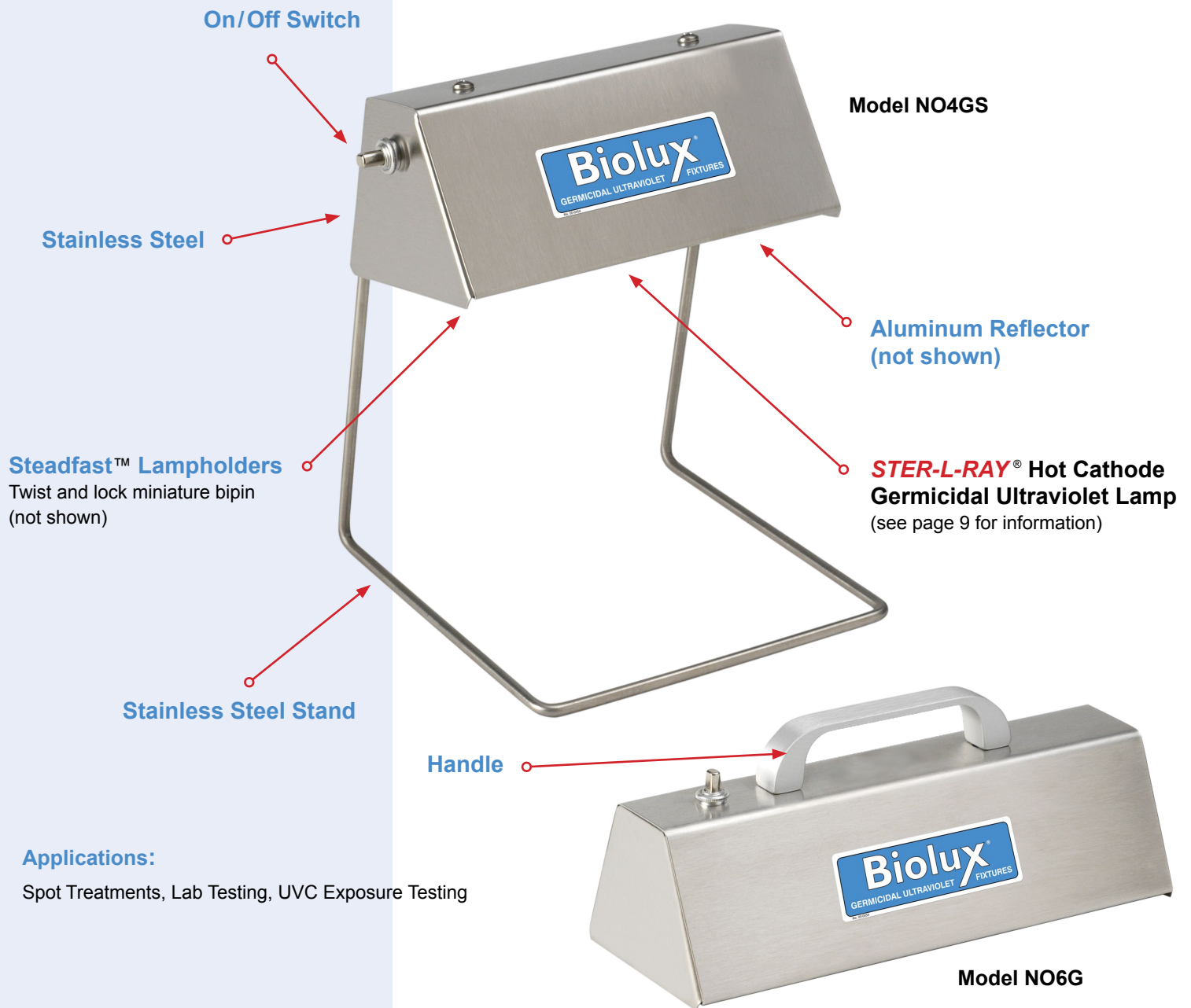
Biolux® Germicidal Fixtures utilize direct germicidal ultraviolet exposure for air and surface disinfection. Our UV Application Specialists would be happy to perform the necessary calculations to ensure the fixture selected is appropriate for your particular application.



SPECIAL FEATURES—STAND & HAND-HELD FIXTURES

Biolux® Germicidal Ultraviolet Fixture NO4G, NO4GS, NO6G and NO6GS

Biolux® Germicidal Fixtures utilize direct germicidal ultraviolet exposure for air and surface disinfection. Our UV Application Specialists would be happy to perform the necessary calculations to ensure the fixture selected is appropriate for your particular application.



SPECIAL FEATURES—WE10 FIXTURE

Biolux® Germicidal Ultraviolet Fixture WE10

Biolux® Germicidal Fixtures utilize direct germicidal ultraviolet exposure for air and surface disinfection. Our UV Application Specialists would be happy to perform the necessary calculations to ensure the fixture selected is appropriate for your particular application.

Steadfast™ Lampholders

Set includes a stationery 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.

STER-L-RAY® Germicidal Ultraviolet Lamp

Cold Cathode Lamp with **Armorlite™** Safety Shield that ensures protection for employees, products and work environment by preventing the dangers associated with fragments of broken quartz.



Applications:

Small tanks, hoods, laboratories

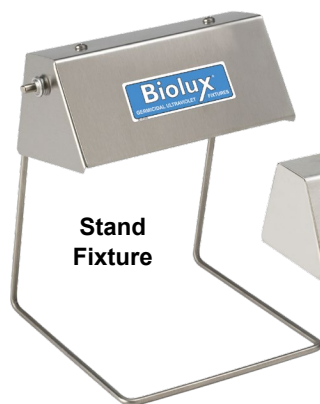
The **Biolux® WE10** is available in either 120v or 220v with a Dry Contact option.

SPECIFICATIONS—STRIP, STAND, HAND-HELD & WE10 FIXTURES

Figure 2 - Biolux® Germicidal Ultraviolet Fixtures



Strip Fixture



**Stand
Fixture**



**Hand-held
Fixture**



WE10 Fixture

Proper placement of the Biolux® Germicidal Fixture is essential, to ensure safe and effective operations; the location should have an appropriate power source, not be mounted under any source of moisture or condensation, and be easily accessible and allow enough clearance for routine cleaning or maintenance.

Model	Lamp	Total Ultraviolet Output ^①	Dimensions			Rated Lamp Life (Hours)
			Length	Width	Height	
4 Watt Strip Fixture	05-1110	0.5 Watts	9"	1-3/8"	2-1/8"	9,000
6 Watt Strip Fixture	05-1109	1.0 Watts	12"	1-3/8"	2-1/8"	9,000
8 Watt Strip Fixture	05-1108	1.6 Watts	15"	1-3/8"	2-1/8"	9,000
15 Watt Strip Fixture	05-1105	3.6 Watts	19-1/2"	2-5/8"	3-1/2"	9,000
25 Watt Strip Fixture	05-1107	5.0 Watts	19-1/2"	2-5/8"	3-1/2"	9,000
30 Watt Strip Fixture	05-1106	8.3 Watts	37-1/2"	2-5/8"	3-1/2"	9,000
NO4G Hand-held Fixture	05-1110	0.5 Watts	6-3/16"	3-21/32"	3-11/16"	9,000
NO4GS Stand Fixture	05-1110	0.5 Watts	6-3/16"	3-21/32"	8-1/8"	9,000
NO6G Hand-held Fixture	05-1109	1.0 Watts	7-11/16"	3-21/32"	3-11/16"	9,000
NO6GS Stand Fixture	05-1109	1.0 Watts	7-11/16"	3-21/32"	8-1/8"	9,000
WE10 Fixture	05-1345	2.9 Watts	17-1/4"	5-1/2"	3-1/2"	20,000

^① Ultraviolet Output at 254 nanometers at 100 hours and 80 degrees F (approximate).

Atlantic Ultraviolet Corporation® equipment is manufactured in USA.

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 faceshield, gloves and protective clothing.

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

OPTIONAL ACCESSORIES



ArmorLite™ 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 **Biolux®** fixtures at the time of purchase. The coating is installed at the factory.)



Zenith™ UV-C 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



Promate™ Safety Glasses

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

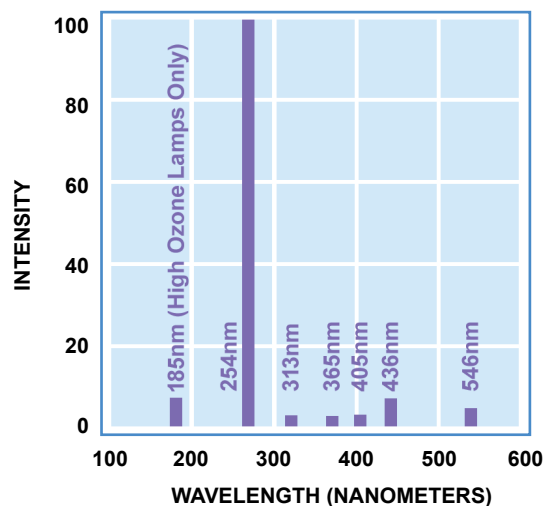


Promate™ Face Shield

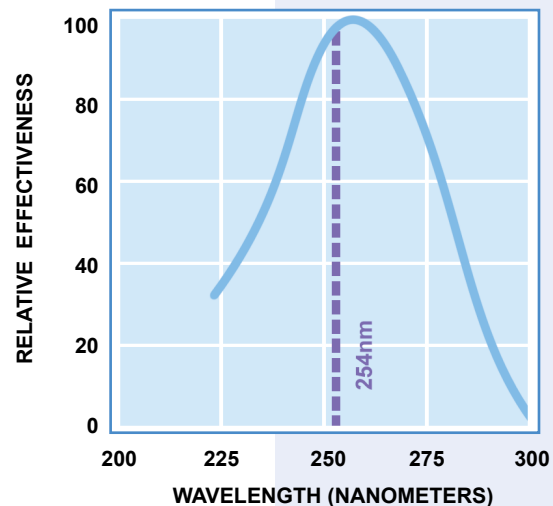
Lightweight visor with adjustable headgear provides eye and face protection from germicidal ultraviolet rays.

STER-L-RAY® GERMICIDAL OPERATING CHARACTERISTICS

Relative Spectral Energy Distribution (Typical)



Germicidal Effectiveness As Related to Wavelength



GENUINE *STER-L-RAY*® GERMICIDAL LAMPS

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® Hot Cathode Germicidal 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 Lamps are instant start and used in the *Biolux*® Model WE10. They utilize large, cylindrical cathodes instead of tungsten filaments. *STER-L-RAY*® Cold Cathode Germicidal Lamps possess favorable operating characteristics; their life is significantly longer than that of other lamp types. They are not adversely affected by the frequency of starting and they maintain a high ultraviolet output throughout their life, even at reduced temperatures. Cold cathode germicidal lamps are widely used in walk-in refrigerators and holding rooms, and are also employed in applications where frequent starting is a requirement.

STER-L-RAY®, *ArmorLite*™, and *Biolux*®, and the *STER-L-RAY*®, *ArmorLite*™, and *Biolux*® 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 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>	Bacteria	Diphtheria	6,500
<i>Legionella pneumophila</i>	<i>L. pneumophila</i>	Bacteria	Legionnaire's Disease	12,300
<i>Mycobacterium tuberculosis</i>	<i>M. tuberculosis</i>	Bacteria	Tuberculosis (TB)	10,000
<i>Pseudomonas aeruginosa</i>	<i>P. aeruginosa</i>	Bacteria		3,900
<i>Serratia Marcescens</i>	<i>S. marcescens</i>	Bacteria		6,160
<i>Staphylococcus aureus</i>	<i>S. aureus</i>	Bacteria		6,600
<i>Staphylococcus epidermidis</i>	<i>S. epidermidis</i>	Bacteria		5,800
Adeno Virus Type III		Virus		4,500
Coxsackie A2		Virus		6,300
Influenza		Virus	Flu	6,600

* Nominal Ultraviolet dosage (µWSec/cm²) necessary to inactivate better than 99% of specific microorganism. Consult factory for more complete listing.

OTHER GERMICIDAL UV-C EQUIPMENT AVAILABLE

SANITAIRE®

ULTRAVIOLET ROOM AIR SANITIZERS

Sample of Applications

Food Processing, Pharmaceutical, Manufacturing Dairy Plants, Bakeries, Methadone Clinics, Clean Rooms, Homeless Shelters, Prisons and Jails, etc.

Hygeaire®

ULTRAVIOLET INDIRECT AIR DISINFECTION

Sample of Applications

Hospitals, Laboratories, Clean Rooms, Operating Rooms, ICU's, Burn Centers, Doctors Office, Homeless Shelters, Methadone Clinics, Dairy Plants, etc.

Sanidyne®

ULTRAVIOLET PORTABLE AREA SANITIZERS

Sample of Applications

Hospitals, Laboratories, Clean Rooms, Operating Rooms, ICU's, Burn Centers, Doctors Office, Homeless Shelters, Methadone Clinics, Dairy Plants, etc.

Product Overview

- For **occupied** areas, in many configurations to adapt to any setting
- Sanitizers are constructed of tough, corrosion-resistant 304 stainless steel
- Blower capacity 72 to 2680 CFM (Cubic Feet Per Minute), Max treatment 3240–120,000 CFH
- Destroys harmful bacteria, mold and virus in the air
- Fixtures may be mounted into drop ceiling, on a wall or for portable use
- Washable Electrostatic, Absolute HEPA or disposable particulate filters



Product Overview

- For use in **occupied** areas. Upper room portion must be unoccupied; proper precautions must be taken
- Sanitizers are constructed of tough, corrosion-resistant 304 stainless steel
- Destroys harmful bacteria, mold, and virus in the air carried into the UV-C field
- Uses baffles to direct rays to the upper portion of a room



Product Overview

- Disinfects air and surfaces in **unoccupied** areas by means of germicidal irradiation
- Sanitizers are constructed of tough, corrosion-resistant 304 stainless steel
- Generates high levels of ultraviolet radiation lethal to bacteria, mold, virus, and fungi
- Portable, compact and lightweight, easily carried from one location to another
- A room as large as 1,000 sq. ft can be treated in one hour



OTHER GERMICIDAL UV-C EQUIPMENT AVAILABLE

AeroLogic®

ULTRAVIOLET AIR DUCT DISINFECTION SYSTEMS

Sample of Applications

Homes, Hospitals, Labs, New or Existing Forced Air Ducts etc.

Product Overview

- Fixtures can be installed in new or existing duct systems
- Fixtures are constructed of tough, corrosion-resistant 304 stainless steel
- Destroys airborne microbes, including bacteria and virus in forced air duct systems
- Fixtures can be sized to provide up to a 98% bacteria kill rate



SaniLIGHT®

GERMICIDAL ULTRAVIOLET IRRADIATORS

Sample of Applications

Labs, Clean Rooms, Operating Rooms, etc.

Product Overview

- For ceiling or wall mount in **unoccupied** areas, or when proper precautions are taken
- Fixtures are constructed of tough, corrosion-resistant 304 stainless steel
- Irradiates room air and exposed surfaces with direct germicidal ultraviolet rays
- Very effective due to the long, unobstructed path of the rays



Sani-Ray®

GERMICIDAL ULTRAVIOLET RECESSED FIXTURES

Sample of Applications

Labs, Clean Rooms, Operating Rooms, Conveyor Belts, etc.

Product Overview

- For use in **unoccupied** space, or when proper precautions are taken
- Fixtures are constructed of tough, corrosion-resistant 304 stainless steel
- Irradiates air and exposed surfaces with direct germicidal ultraviolet rays
- For ceiling or wall mount, with handles for portable use
- Very effective due to the long, unobstructed path of the rays



The Standard of Excellence In Ultraviolet



Manufacturers / Engineers / Sales / Service – Germicidal Ultraviolet - Equipment & Lamps

ATLANTIC  **ULTRAVIOLET**
CORPORATION®

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