

# **SaniLIGHT<sup>®</sup>**

GERMICIDAL ULTRAVIOLET IRRADIATORS

Models D-12-1S, 2S, 1CC, D-18-1S, 2S, 1CC, 2CC  
D-24-1S, 2S, 1CC, 2CC, D-30-1S, 2S  
D-36-1S, 2S, 1CC, 2CC, D-48-1S, 2S, 1CC, 2CC,  
4CC & D-64-1S, 2S



## **Installation, Operation & Maintenance**

**ATLANTIC  ULTRAVIOLET**  
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**[ultraviolet.com](http://ultraviolet.com)**

Document No. 98-1318A9 • Revised August 2011 • ©2011 Atlantic Ultraviolet Corporation<sup>®</sup>

# **Owner's Manual**

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These instructions generally describe the installation, operation and maintenance of the **SaniLIGHT®** Germicidal Ultraviolet Irradiators. Questions that are not specifically answerable by these instructions should be directed to the factory. Atlantic Ultraviolet Corporation takes all possible precautions when packaging equipment to prevent damage. Carefully inspect and report all damages. Do not install damaged equipment. Follow all instructions on any labels or tags. Carefully inspect all packing materials before discarding to prevent the loss of accessories, mounting hardware, spare parts or instructions.

The information and recommendations contained in this publication are based upon data collected by the Atlantic Ultraviolet Corporation® and are believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Specifications and information are subject to change without notice.



# SAFETY WARNINGS

- All personnel should be alerted to the potential hazards indicated by the product safety labeling on this fixture.
- The following conventions are used to indicate and classify precautions in this manual and on product safety labeling. Failure to observe precautions could result in injury to people or damage to property.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

## DANGER

Danger indicates an **IMMINENTLY** hazardous situation, which, if not avoided, **WILL** result in death or serious injury.



This symbol/pictorial is used to identify an **ELECTRICAL SHOCK** or **ELECTROCUTION** hazard.

## WARNING

Warning indicates a **POTENTIALLY** hazardous situation, which, if not avoided, **COULD** result in death or serious injury.



This symbol/pictorial is used to identify an **ULTRAVIOLET LIGHT** hazard.

## CAUTION

Caution indicates a **POTENTIALLY** hazardous situation, which, if not avoided, **MAY** result in minor or moderate injury.



This symbol/pictorial is used to identify the need to wear approved ultraviolet resistant face shield.

## CAUTION

Caution used without the safety alert symbol indicates a potentially hazardous situation, which, if not avoided, may result in property damage.



This symbol/pictorial is used to identify the need to wear protective gloves.


- Product safety labels should be periodically inspected and cleaned, as necessary, to maintain good legibility. Always replace illegible safety labels. Contact factory to obtain replacement safety labels.



# SAFETY INSTRUCTIONS

 **WARNING:** To guard against injury, basic safety precautions should be observed, including the following:

1. Read and follow **ALL** safety instructions.



 **WARNING:** Avoid exposure to direct or strongly reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.

2. Intended for indoor use only.
3. Do not alter the construction or design.
4. Do not use this fixture for other than its intended purpose, as described in this manual.
5. Do not remove any labels or devices.
6. Do not mount under any source of moisture or condensation.
7. **CAUTION:** Germicidal ultraviolet rays may break down plastic, rubber or other non-metallic materials, with inadequate resistance to ultraviolet. Shield all plastic, rubber or other non-metallic parts such as; plastic drain pans, wire insulation, flex ducts, humidifiers, filters, etc. which may be exposed to direct or reflected germicidal ultraviolet rays.
8.  **CAUTION:** Do not operate without proper electrical ground.
9. Do not operate the fixture if there is visible or suspected damage to the fixture or, if applicable, there is damage to power cord and/or plug.
10. Utility power supplied, to the fixture, **MUST** match power requirements listed on the fixture label.
11.  **WARNING:** Always disconnect power to the fixture before performing any service or maintenance.
12. Read and follow all notices and warnings on the fixture.
13. **SAVE THESE INSTRUCTIONS.**

# PRODUCT APPLICATION

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## CONSTRUCTION

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The **SaniLIGHT®** Germicidal Ultraviolet Irradiator consists of:

- Germicidal ultraviolet lamp(s), which deliver ultraviolet energy at the specific wavelength of 254 nanometers (nm). This wavelength is highly effective against microbes including: virus, bacteria, and mold spores.
- Electronic ballast(s) capable of operating at 120v 50/60Hz or 230v 50/60Hz.
- All electronics and wiring are housed in an enclosure constructed of stainless steel. Stainless steel construction provides strength, durability and lasting value.

## PRINCIPLE OF OPERATION

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The **SaniLIGHT®** line of Germicidal Ultraviolet Irradiators has been carefully conceived to provide direct germicidal ultraviolet exposure for air or surface disinfection. The dosage, as it applies to ultraviolet disinfection, is a function of time, and the intensity, of ultraviolet radiation, to which the air or surface is exposed.

The exposure time, in seconds, is the total time it takes the air to move through the ultraviolet field, produced by the germicidal lamp(s). Exposure time is related to the airflow rate; the higher the airflow, the lower the exposure time or the lower the airflow, the higher the exposure time. The UV intensity is the amount of energy, per fixture time, emitted by the germicidal lamp.

## LIMITATIONS

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- The **SaniLIGHT®** requires professional installation by a licensed electrician; so all wiring complies with applicable state, local and national electrical and mechanical codes.
- **SaniLIGHT®** requires knowledgeable planning for: location, installation, and supervision to prevent ultraviolet exposure of personnel to direct or reflected ultraviolet rays. Overexposure to germicidal ultraviolet rays will result in the irritation of the eyes and reddening of the skin. For this reason, it is of the utmost importance that your ultraviolet application be carefully planned and implemented so as to avoid exposure, of personnel, to direct or reflected ultraviolet rays.
- Personal protection equipment is required when entering the irradiated space with the germicidal lamp(s) operating. Personal protection equipment includes skin and eye protection such as gloves, long sleeves with no gaps between cuff and gloves, and an ultraviolet resistant face shield.
- The American Conference of Governmental Industrial Hygienists (**ACGIH**) has established that the ultraviolet radiant exposure incident for unprotected eyes or skin should not exceed 0.2 microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ) at 254 nanometers (nm) for an eight (8) hour period. ("**2004 TLVs® and BEIs®**")
- Safety and maintenance procedures should be implemented to prevent accidental exposure of personnel. All work performed in the irradiated space must be monitored to ensure that it does not adversely impact the safety or effectiveness of the installation.
- To monitor and test ultraviolet intensity, see "**Zenith™ Ultraviolet Meter**" on page 11 for further details.

# UNPACKING

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- Remove the **SaniLIGHT®** Germicidal Ultraviolet Irradiator from its shipping carton.
- Atlantic Ultraviolet Corporation takes all possible precautions when packaging this fixture to prevent damage. Carefully inspect the fixture, power cord and plug if applicable, for damage, report all damage immediately. Do not assemble or operate if there is any damage, visible or suspected.
- Germicidal lamps are packed separately, to ensure maximum protection for the lamps. Keep the lamps aside until ready for installation.
- Carefully inspect all packing materials to prevent the loss of accessories, mounting hardware, spare parts or instructions.
- Do not discard packing materials until fixture is assembled and check out is complete.

**SaniLIGHT®** Models D-12-1S, D-18-1S, D-24-1S, D-30-1S, D-36-1S, D-48-1S & D-64-1S fixture includes:

- 1- **SaniLIGHT®** Germicidal Ultraviolet Irradiator
- 1- Slimline Germicidal Lamp
- 1- Operating Instructions

**SaniLIGHT®** Models D-12-1CC, D-18-1CC, D-24-1CC, D-36-1CC & D-48-1CC fixture includes:

- 1- **SaniLIGHT®** Germicidal Ultraviolet Irradiator
- 1- Cold Cathode Germicidal Lamp
- 1- Operating Instructions

**SaniLIGHT®** Models D-12-2S, D-18-2S, D-24-2S, D-30-2S, D-36-2S, D-48-2S & D-64-2S fixture includes:

- 1- **SaniLIGHT®** Germicidal Ultraviolet Irradiator
- 2- Slimline Germicidal Lamps
- 1- Operating Instructions

**SaniLIGHT®** Models D-18-2CC, D-24-2CC, D-36-2CC, & D-48-2CC fixture includes:

- 1- **SaniLIGHT®** Germicidal Ultraviolet Irradiator
- 2- Cold Cathode Germicidal Lamps
- 1- Operating Instructions

**SaniLIGHT®** Model D-48-4CC fixture includes:

- 1- **SaniLIGHT®** Germicidal Ultraviolet Irradiator
- 4- Cold Cathode Germicidal Lamps
- 1- Operating Instructions

# INSTALLATION

## FIXTURE PLACEMENT

Proper fixture placement is essential. To ensure safe and effective operation, the location should:

- Have an appropriate power source matching power requirements listed on the fixture label.
- Not be mounted under any source of moisture or condensation.
- Prevent exposure of any plastic, rubber or other non-metallic materials, with inadequate resistance to ultraviolet. If necessary, shield all plastic, rubber or other non-metallic parts using aluminum tape, or equivalent ultraviolet resistant material.
- Be free of any components that would be damaged by or interfere with the installation.
- Be easily accessible and allow enough clearance for routine cleaning or maintenance.

## DIMENSIONAL DATA

Figure 1 - Dimensional Data Single Lamp Models D-12-1 to D-64-1

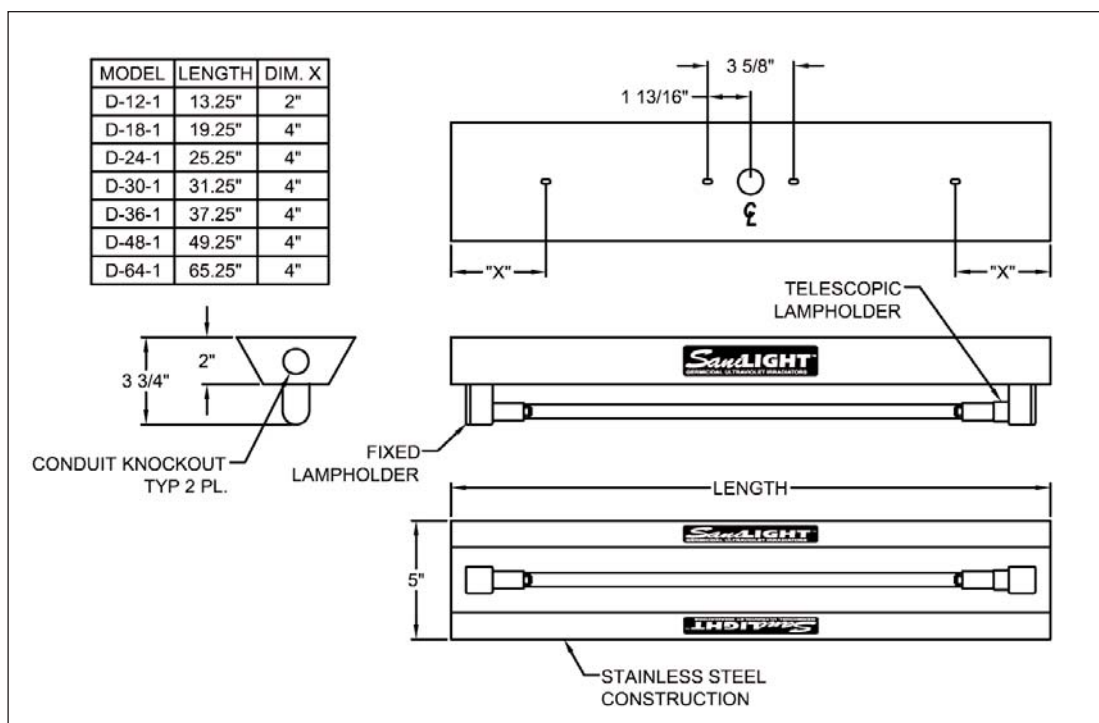
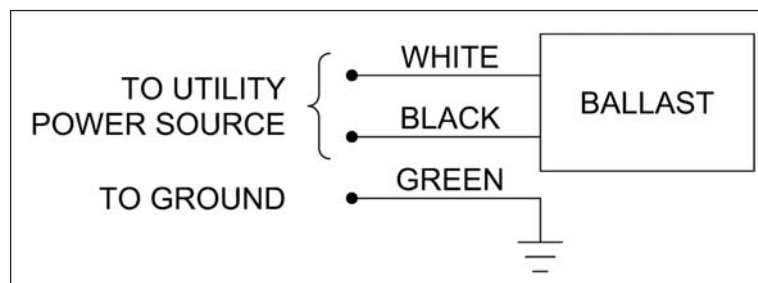


Figure 2 - Wiring Diagram Single Lamp Models D-12-1 to D-64-1



All specifications, dimensional data, etc. are approximate and subject to change without notice.

Figure 3 - Dimensional Data Dual Lamp Models D-12-2 to D-64-2

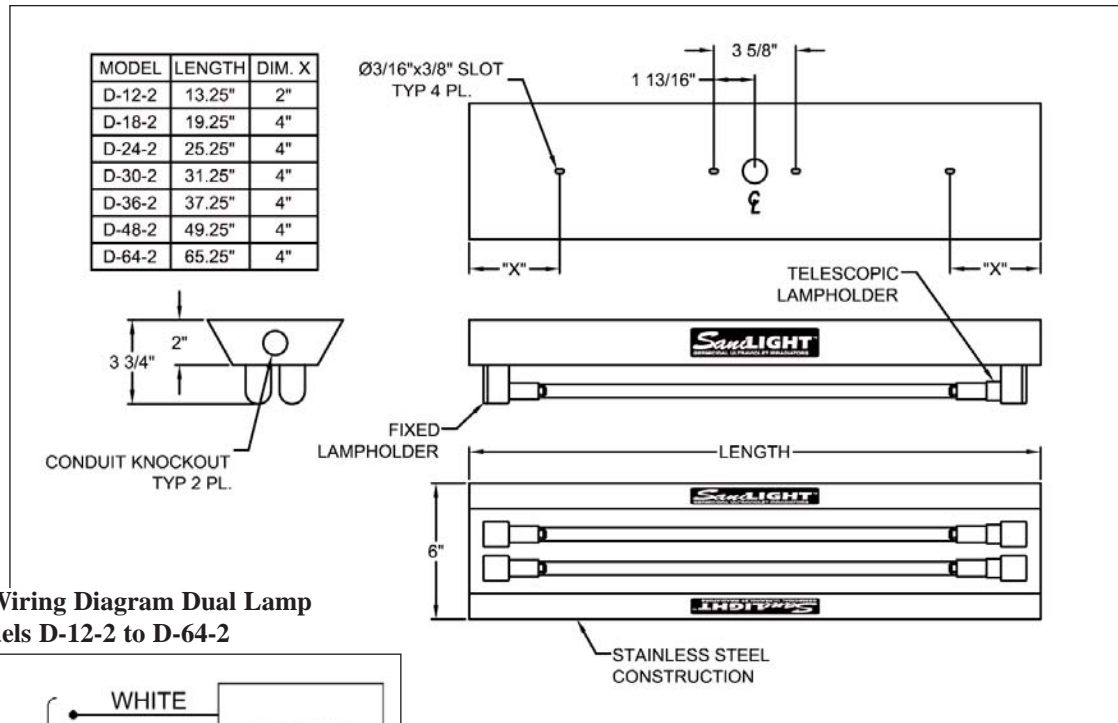
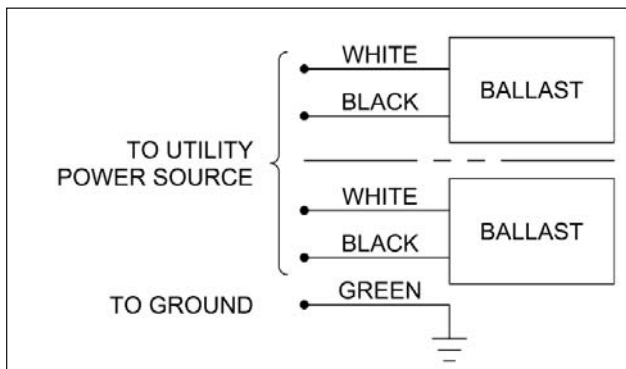


Figure 4 - Wiring Diagram Dual Lamp Models D-12-2 to D-64-2



All specifications, dimensional data, etc. are approximate and subject to change without notice.

## INSTALLATION

- All standard **SaniLIGHT®** fixtures;
  - Require professional installation so all wiring complies with applicable state, local and national electrical and mechanical codes.
  - Require removal of the cover to complete input power wiring.
  - Require suitable wire nuts or other approved interconnecting method to connect the **SaniLIGHT®** ballast wiring to utility input power wiring.
  - Require an adequately sized ground wire. An 8-32UNC stud, located inside the chassis, is provided for securing the ground wire to the **SaniLIGHT®** chassis.
  - Have two 7/8" trade size knockout plugs, for standard electrical fittings.
- After fixture is mounted and wired, install lamp(s) following the steps in "**Lamp Installation, Replacement or Cleaning**" in the "**Maintenance**" section on page 7.

## PRECAUTIONS

- Procedures should be adopted to ensure that the **SaniLIGHT®** is disconnected from power whenever personnel work in the irradiated space. Personnel who work in and around the fixture should be briefed on the precautions to be observed.
- If there are any doubts or concerns about the safety or the effectiveness of the installation, or if a sensitive ultraviolet meter is required, please contact our application specialists. (See "**Zenith™ Ultraviolet Meter**" in the "**Optional Accessories**" section on page 8.)



# MAINTENANCE

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- The **SaniLIGHT®** is designed to operate with a minimal amount of maintenance.
- A regular cleaning schedule of the germicidal lamp(s) should be established, and carefully maintained, based on visual inspection and experience. The frequency between cleanings will vary with the conditions surrounding each installation. It is recommended that the ultraviolet lamp(s) be cleaned at least once every three (3) months.
- The germicidal ultraviolet lamp(s) used in the **SaniLIGHT®** have a manufacturer's rated average effective life of 10,000 hours. Lamps may operate longer than their rated effective life, but the reduction in ultraviolet output will make it impractical to use past the manufacturer's rated life. For maximum efficiency lamp replacement is recommended every 10,000 hours of operation or about one (1) year of continuous use.
- Unless lamp replacement is due to failure or breakage, it is recommended that all lamps be replaced at the same time.

**⚠ WARNING:** Always disconnect power to the fixture before performing any service or maintenance.

## LAMP INSTALLATION, REPLACEMENT OR CLEANING

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**⚠ WARNING:** Always disconnect power to the fixture before performing any service or maintenance.

**⚠ CAUTION:** Ultraviolet lamps are easily damaged. Exercise care when handling lamps.

1. Disconnect power to the fixture.
2. Remove lamp(s), carefully press lamp against the spring-loaded lamp holder, when upper lamp pin clears the stationary lamp holder pull lamp out, and away from fixture.
3. Moisten a clean, lint-free cloth with denatured alcohol and clean lamp(s).
4. To remove any dust, dirt, fingerprints, smears, etc, from the outer surfaces of the fixture, moisten a clean, lint-free cloth with denatured alcohol and wipe down the fixture. Buff out any streaks, left from the cleaning, using a soft dry cloth.
5. Install lamp(s), insert lamp pin into spring-loaded lamp holder. Carefully press lamp against the spring-loaded lamp holder. Align upper lamp pin with stationary lamp holder. Slowly ease the pressure until lamp is fully seated in lamp holders.
6. Verify that lamp(s) is properly seated.
7. Repeat until all lamps have been cleaned and properly reinstalled.
8. Restore power to the fixture.



**⚠ WARNING:** Avoid exposure to direct or strongly reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.

9. Verify operation by viewing lamp(s), use of personal protection equipment is required. If the fixture is not operating properly, go to “**Troubleshooting**” section.

## BREAKAGE

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**⚠ CAUTION:** Broken Quartz is SHARP.



**Wear protective gloves when handling broken ultraviolet lamp(s).**

In the event of breakage, **DO NOT** use a household vacuum cleaner to pick up fragments of the lamp(s). Sweep up debris into a plastic bag and dispose of properly.

## DISPOSAL OF MERCURY ADDED LAMPS

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Germicidal ultraviolet lamps, like standard fluorescent lamps contain small amounts of mercury. Mercury added lamps should not be placed in the trash. Dispose of properly.

For further information regarding the disposal and recycling of lamps containing mercury, along with Federal and State requirements visit <http://www.lamprecycle.org>. Product Data Sheets for germicidal ultraviolet lamps can be found in the “PDF Library for **Ster-L-Ray®** Germicidal Ultraviolet Lamps” section of <http://www.ultraviolet.com>.

# TROUBLESHOOTING

**⚠ WARNING:** Always disconnect power to the fixture before performing any service or maintenance.



Use **personal protection equipment**, such as gloves; long sleeves with no gaps between cuffs and gloves, and ultraviolet resistant face shield, if troubleshooting **SaniLIGHT®**.

- **IMPORTANT:** This fixture is to be serviced **ONLY** by qualified, and appropriately licensed, personnel.

**Table 1 - Troubleshooting**

Problem	Possible Cause	Corrective Action
<b>Fixture not operating.</b>	No electrical power...	Verify that the fixture is connected to a live power source.
	Power connections, to fixture, loose or disconnected...	Verify power connections to fixture are fully engaged.
<b>Germicidal lamp not operating.</b>	Germicidal lamp(s) not properly seated...	Confirm connection of lamp and lamp holder, make sure connection is tight and lamp is making full contact with lamp holder.
	Germicidal lamp(s) faulty...	Swap suspect lamp, with lamp known to be good. If suspect lamp does not operate, replace lamp
	Ballast not functioning...	Locate ballast and replace.

# OPTIONAL ACCESSORIES

## 1. **ArmorLite™ Safety Shield**

**Protective coating applied to *Ster-L-Ray®* Lamps**

Ensures protection by eliminating the dangers associated with fragments of broken quartz and mercury contamination.

## 2. The **Zenith™ Ultraviolet Meter** is a sensitive, hand-held, ultraviolet meter that can be used to:

- Survey ultraviolet room air sanitizer installations to ensure that the germicidal ultraviolet radiant exposure, of personnel within the treated area, is within acceptable limits. The **Zenith™ Ultraviolet Meter** provides accurate and easy-to-read levels of intensity that may be interpreted by anyone - not just engineers.
- Check the intensity of aging ultraviolet lamps

The **Zenith™** Part No. 30-0081-R is the recommended meter for this application.

## 3. **SENTINEL™ Remote Lamp Indicator**

Remote Indicator monitors lamp operation of the ultraviolet fixture, and can be mounted up to 25 feet from the fixture. Extension cables are available.

- Other accessories such as wire form lamp guards, reflectors etc. are available.

For more information and purchasing contact our offices, weekdays between 8:30 am and 5:00 pm Eastern time, at: Atlantic Ultraviolet Corporation, 375 Marcus Boulevard, Hauppauge, New York, 11788

Tel: 631.273.0500 • Fax: 631.273.0771 • E-mail: [info@ultraviolet.com](mailto:info@ultraviolet.com) • Website: [www.ultraviolet.com](http://www.ultraviolet.com)



# TECHNICAL SPECIFICATIONS

## SaniLIGHT® Single Lamp Models

Table 2 - Technical Specifications Single Lamp Models D-12-1 to D-64-1

Model:		D-12-1	D-18-1	D-24-1	D-30-1	D-36-1	D-48-1	D-64-1
Volts:①		120v	120v	120v	120v	120v	120v	120v
Hertz:		50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Lamp Data	Slimline Model:	05-1500-R	05-1340-R	05-1348-R	05-1352-R	05-1343-R	05-1334-R	05-1338A-R
	Power Consumption: ②	10w	17w	25w	32w	39w	50w	65w
	Ultraviolet Output: ③	3.1w	5.8w	8.5w	11.2w	13.8w	19.3w	25w
	Ave. Effective Life: (Hrs)	10,000	10,000	10,000	10,000	10,000	10,000	10,000
	Cold Cathode Model:	05-0052A	05-0040	05-1118-R	NA	05-0044-R	05-0042-R	NA
	Power Consumption: ②	17w	21w	23w		28w	39w	
	Ultraviolet Output: ③	1.4w	3.2w	5.0w		8.5w	11.2w	
	Ave. Effective Life:(Hrs)	20,000	20,000	20,000		20,000	20,000	

## SaniLIGHT® Dual Lamp Models

Table 3 - Technical Specifications Dual Lamp Models D-12-2 to D-64-2

Model:		D-12-2	D-18-2	D-24-2	D-30-2	D-36-2	D-48-2	D-48-4	D-64-2
Volts:①		120v	120v	120v	120v	120v	120v	120v	120v
Hertz:		50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Lamp Data	Slimline Model:	05-1500-R	05-1340-R	05-1348-R	05-1352-R	05-1343-R	05-1334-R	05-1334-R	05-1338A-R
	Power Consumption: ②	21w	34w	50w	64w	78w	100w	200w	130w
	Ultraviolet Output: ③	6.2w	11.6w	17w	22.4w	27.6w	38.6w	77.2w	50w
	Ave. Effective Life: (Hrs)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
	Cold Cathode Model:	NA	05-0040	05-1118-R	NA	05-0044-R	05-0042-R	05-0042-R	NA
	Power Consumption: ②		42w	46w		56w	78w	156w	
	Ultraviolet Output: ③		6.4w	10w		17w	22.4w	44.8w	
	Ave. Effective Life:(Hrs)		20,000	20,000		20,000	20,000	20,000	

① 220-240v 50/60Hz fixtures are also available. Consult factory with specific voltage requirements.

② Wattage is lamp watts only and does not include ballast loss.

③ Ultraviolet output at 254nm at 100 hours and 80°F (approximate).

All specifications, dimensional data, etc. are approximate and subject to change without notice.

# REPLACEMENT PARTS

## SaniLIGHT® Single Lamp Models

Figure 5 - Exploded View (D-18-1S)

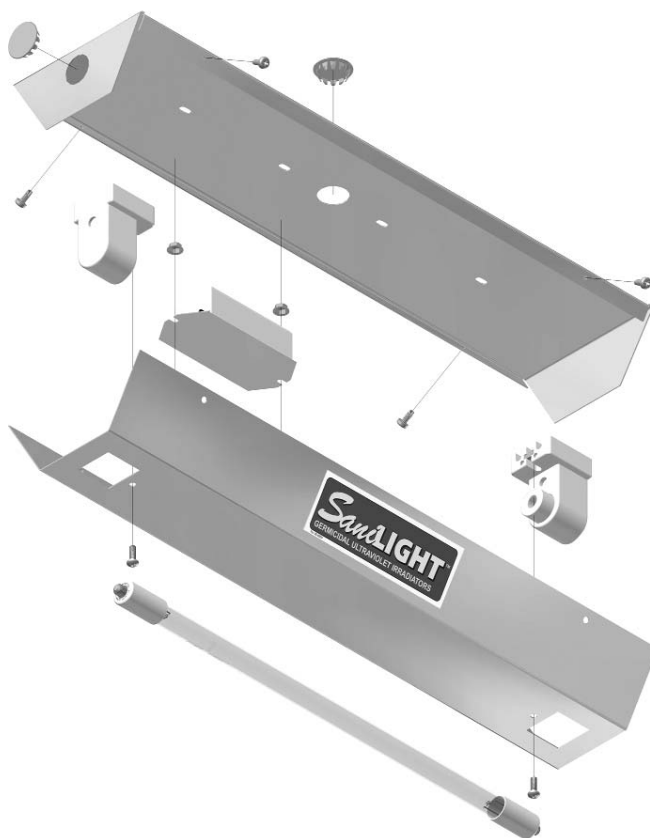


Table 4 - Replacement Lamps and Ballasts

Model	Slimline Germicidal Lamp	QTY	Slimline Ballast			
			120V 50/60HZ	QTY	230V 50/60HZ	QTY
D-12-1S	05-1500-R	1	10-0137	1	10-0136	1
D-18-1S	05-1340-R	1	10-0137	1	10-0136	1
D-24-1S	05-1348-R	1	10-0137	1	10-0136	1
D-30-1S	05-1352-R	1	10-0137	1	10-0136	1
D-36-1S	05-1343-R	1	10-0137	1	10-0136	1
D-48-1S	05-1334-R	1	10-0137	1	10-0136	1
D-64-1S	05-1338A-R	1	10-0091	1	10-0127	1

Model	Cold Cathode Germicidal Lamp	QTY	Cold Cathode Ballast			
			120V 50/60HZ	QTY	230V 50/60HZ	QTY
D-12-1CC	05-0052A	1	10-0024B	1	10-0025B	1
D-18-1CC	05-0040	1	10-0024B	1	10-0025B	1
D-24-1CC	05-1118	1	10-0024B	1	10-0025B	1
D-36-1CC	05-0044	1	10-0024B	1	10-0025B	1
D-48-1CC	05-0042-R	1	10-0024B	1	10-0025B	1

Other replacement parts are available. Consult the factory with specific requirements.

## SaniLIGHT® Dual Lamp Models

Figure 6 - Exploded View (D-18-2S)

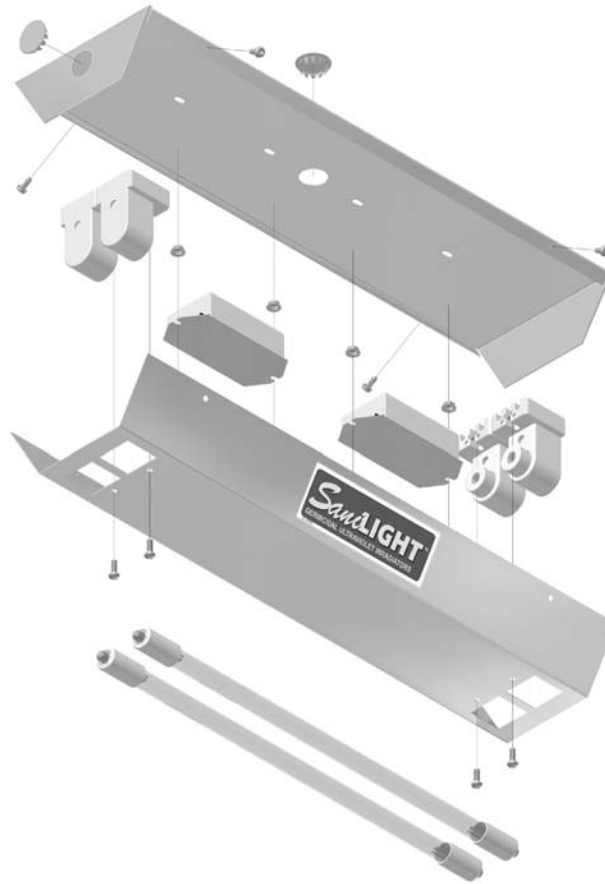


Table 5 - Replacement Lamps and Ballasts

Model	Slimline Germicidal Lamp	QTY	Slimline Ballast			
			120V 50/60HZ	QTY	230V 50/60HZ	QTY
D-12-2S	05-1500-R	2	10-0137	2	10-0136	2
D-18-2S	05-1340-R	2	10-0137	2	10-0136	2
D-24-2S	05-1348-R	2	10-0137	2	10-0136	2
D-30-2S	05-1352-R	2	10-0137	2	10-0136	2
D-36-2S	05-1343-R	2	10-0137	2	10-0136	2
D-48-2S	05-1334-R	2	10-0137	2	10-0136	2
D-64-2S	05-1338A-R	2	10-0091	2	10-0127	2

Model	Cold Cathode Germicidal Lamp	QTY	Cold Cathode Ballast			
			120V 50/60HZ	QTY	230V 50/60HZ	QTY
D-18-2CC	05-0040	2	10-0024B	2	10-0025B	2
D-24-2CC	05-1118	2	10-0024B	2	10-0025B	2
D-36-2CC	05-0044	2	10-0024B	2	10-0025B	2
D-48-2CC	05-0042-R	2	10-0024B	2	10-0025B	2
D-48-4CC	05-0042-R	4	10-0024B	4	10-0025B	4

Other replacement parts are available. Consult the factory with specific requirements.

## USER ASSISTANCE

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Atlantic Ultraviolet Corporation makes every effort to ensure that the **SaniLIGHT®** Germicidal Ultraviolet Irradiator are products of superior quality and workmanship. This manual describes the installation, operation and maintenance of the **SaniLIGHT®** Germicidal Ultraviolet Irradiator.

Please read and become familiar with the contents of this manual before installing or using this fixture. If after reading the manual you still have questions, or concerns, regarding the installation or use of this fixture, contact our offices, weekdays between 8:30 am and 5:00 pm Eastern time, at:

Atlantic Ultraviolet Corporation  
375 Marcus Boulevard  
Hauppauge, New York, 11788

Tel: 631.273.0500  
Fax: 631.273.0771

E-mail: [info@ultraviolet.com](mailto:info@ultraviolet.com)  
Website: [www.ultraviolet.com](http://www.ultraviolet.com)

Please REGISTER your product immediately - you can do this in a number of ways. Go online to [Ultraviolet.com](http://Ultraviolet.com) and on the bottom left of each page either click on "Fill out Warranty Reg. Form on-line!" complete and hit submit or click on "Download a PDF of the Warranty Reg. card" which you can print, fill out and mail in. If you prefer to register over the telephone please call 631-273-0500.

Atlantic Ultraviolet Corporation takes all possible precautions when packaging equipment to prevent damage. Carefully inspect and report all damage. **Do not** install damaged equipment. Follow all instructions on any labels or tags. Carefully inspect all packing materials before discarding to prevent the loss of accessories, mounting hardware, spare parts or instructions.

For your convenience, record the following information below. The model and serial number can be found on a label located on the **SaniLIGHT®** Germicidal Ultraviolet Irradiator. Keep this manual, along with proof of purchase, handy when contacting our offices.

Purchased From:	Date:
Model:	Serial No.:

## WARRANTY

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We warrant that this product will be free from defects in material and workmanship for a period of one year from the date of shipment thereof or the product's total rated life, whichever first occurs. Within the warranty period we shall repair or replace such products, which are returned to us with shipping charges prepaid, and which are determined by us to be defective. This warranty will not apply to any product, which has been subjected to misuse, negligence, or accident; or misapplied; or modified; or repaired by unauthorized persons; or improperly installed.

The Buyer shall inspect the product promptly after receipt and shall notify us at our main office in writing of claims, including claims of breach of warranty, within thirty (30) days after the Buyer discovers or should have discovered the facts upon which the claim is based. Failure of the Buyer to give written notice of a claim within the time period shall be deemed to be a waiver of such claim.

The provisions of the above warranty are our sole obligation and exclude all other remedies or warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose, whether or not purposes or specifications are described herein. We further disclaim any responsibility whatsoever to the customer, or to any person, for injury to person, damage to, or loss of property or value caused by any product which has been subjected to misuse, negligence, accident; or modified or repaired by unauthorized persons; or improperly installed.

Under no circumstances shall the Company be liable for any incidental, consequential or special damages, losses or expenses arising from the contract for this product, or in connection with the use of, or inability to use, our product for any purpose whatsoever.

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### PATENT NOTICE

No attempt has been made to determine the patent status of applications illustrated or described in this publication. Inclusion in this publication of any design or method of use, which may be patented, is not to be construed as promoting or sanctioning unauthorized use.