

Sanidyne[®] PRIME

ULTRAVIOLET PORTABLE AREA SANITIZERS



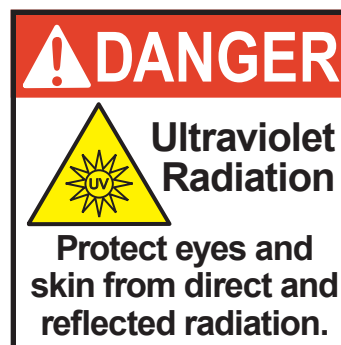
Models
40-0633A (120v)
40-0673A (230v)



8 High Output
UV Lamps with
ArmorLite™
Lamp Safety
Shield

Installation, Operation & Maintenance

Read and Follow All
Safety Instructions.
Save These Instructions.



 SINCE 1963
ATLANTIC ULTRAVIOLET
CORPORATION[®]

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

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Owner's Manual

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These instructions generally describe the installation, operation and maintenance of the **Sanidyne® Prime** Portable Area Sanitizer. 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 unit.
- 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.


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


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


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


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

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

 This symbol is used to identify the need to wear approved ultraviolet blocking eyewear.







 This symbol is used to identify the need to wear approved ultraviolet blocking face shield.

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

 This symbol is used to identify components which must not be disposed of in trash

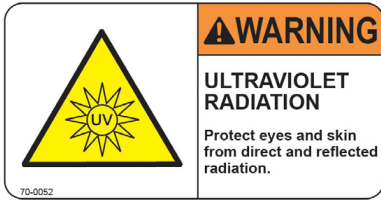
SAFETY INSTRUCTIONS

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

1. Read and follow **ALL** safety instructions.
2.    **WARNING** Avoid exposure to direct or reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.
3. Intended for indoor use only.
4. Do not alter design or construction.
5. Do not use this sanitizer for other than its intended purpose, as described in this manual.
6. Do not use this sanitizer in occupied areas. The supplied “**DANGER - DO NOT ENTER...**” sign(s) **MUST** be clearly displayed to warn against entering the area during the disinfection cycle without proper personal protection equipment.
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 which may be exposed to direct or reflected germicidal ultraviolet rays.
8. Do not remove any labels.
9.  **WARNING** **Do not operate without proper electrical ground.**
10. Do not operate the sanitizer if the power cord and/or plug are damaged, or if any other damage to the sanitizer is visible or suspected.
11. Utility power supplied, to the sanitizer **MUST** match power requirements listed on the sanitizer label.
12.  **WARNING** **Always disconnect power to the fixture before performing any service or maintenance.**
13. Read and follow all notices and warnings on the sanitizer.
14. **SAVE THESE INSTRUCTIONS.**

SAFETY LABELS

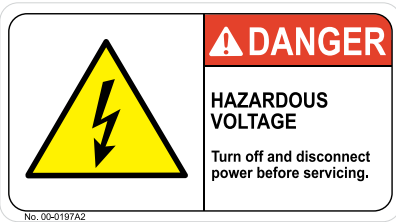
Safety Label: Warning:
Ultraviolet Radiation (70-0052)



Location of Safety Label (70-0052)



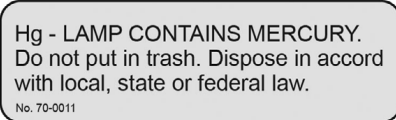
Safety Label: Danger:
Hazardous Voltage (00-0197A2)



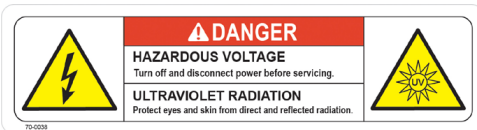
Location of Safety Labels (00-0197A2 and 70-0011)



Hg-Lamp Contains Mercury Label (70-0011)



Safety Label: Danger: Hazardous Voltage /
Ultraviolet Radiation (70-0038)



Location of Safety Label (70-0038) on Both Sides of Unit



CAUTION

It is the user's responsibility to determine and validate the suitability of this equipment for use in the user's system or process. No warranty or representation is made by the manufacturer with respect to suitability or performance of this equipment or to the results that may be expected from its use. The user should periodically inspect, clean as necessary and confirm the presence and good legibility of the product safety labels. Contact the factory for replacement labels in the event that any of the labels are missing or illegible.

SAFETY LABELS

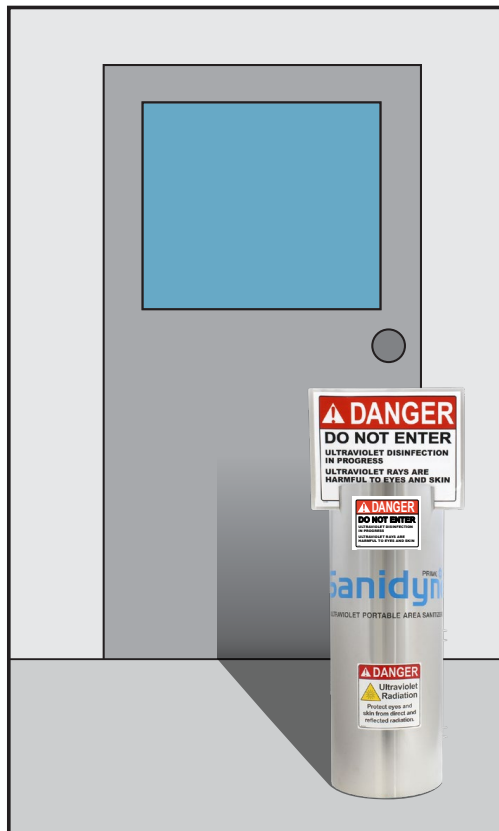
The **Sanidyne® Prime** Protective Cover should be used to hold Danger Signs and additional Danger Labels. Place Protective Cover in location blocking entrance to area being sanitized, as shown below.

(1) **Promate™** Laminated Danger Sign (98-1803/98-1804)
Front in English, back in Spanish, 8.5"x11" with slits to mount on **Sanidyne® Prime** Protected Cover.

(2) **Promate™** Laminated Danger Signs (00-0098/00-0456) Front in English, back in Spanish 8.5"x11".



Location of **Sanidyne® Prime** Protective Cover during sanitization.

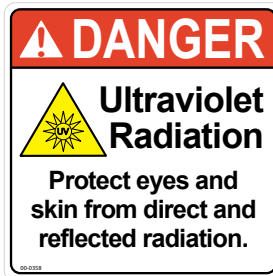


(4) Danger Labels (70-0059) 2-English, 2-Spanish, 5.5" x 4.25". English applied to cover; Spanish attached to this Safety Label page in this Manual for use by operator.



Location of Danger Label (00-0358) on Both Sides of Cover

(2) Danger Label: Ultraviolet Radiation English (00-0358)



(2) Danger Label: Ultraviolet Radiation Spanish (70-0060)



English label applied to cover; Spanish label attached to this Safety Label page in this manual for use by operator.

PRODUCT APPLICATIONS

CONSTRUCTION

The **Sanidyne® Prime** Portable Area Sanitizer consists of:

- **STER-L-RAY® Germicidal Ultraviolet Lamps:** Deliver ultraviolet energy at the specific wavelength of 254 nanometers (nm). This wavelength is highly effective against microbes including: virus, bacteria, and mold spores.
- **Timer:** A microprocessor controller provides easily programmable treatment times in minutes and hours (up to 24 hours), to suit a variety of room sizes.
- **Audible Exit Warning:** Provides an audible warning for 1 minute and 30 seconds after the start button is pushed, allowing the operator time to leave the area before the disinfection cycle begins.
- **Elapsed Time Indicator:** A non-resettable display of the operating hours. Useful for scheduling and recording maintenance and lamp replacement.
- **Power Cord:** For 120v AC 50/60Hz single-phase standard household current, a NEMA 5-15, three-prong plug is provided for a properly grounded outlet. 230v AC 50/60Hz models use a CEE 7/7 (Schuko type) plug. Consult factory for alternate plug types.
- **Storage Cover:** Protects the germicidal lamps from breakage while transporting and/or storing the sanitizer and provides a way to safely test the ultraviolet lamp operation.
- **Sight Ports:** Located on the top cover, allow observation of the germicidal lamps without the risk of ultraviolet exposure when the storage cover is on.
- **Stainless Steel Lamp Guard Assembly:** Protects lamps from damage during normal operation.
- **Stainless Steel Construction:** All electronics and wiring are housed in an enclosure constructed of stainless steel. Stainless steel construction provides strength, durability and will withstand most harsh environments.
- **Sanidyne® Prime** will operate between 120v 50/60Hz and 250v 50/60Hz.

PRINCIPLE OF OPERATION

The **Sanidyne® Prime** design has been carefully conceived to provide direct germicidal ultraviolet exposure for air and surface disinfection in **unoccupied** space to disinfect and prevent areas and surfaces from microorganisms. The ultraviolet disinfection dosage is a function of time and the intensity, of the ultraviolet radiation to which the air and surrounding surfaces are exposed.

Note that the **Sanidyne® Prime** should be used as a supplement to your facility's cleaning and disinfection protocols, not as a replacement. Follow your facilities cleaning and disinfection protocols before using the **Sanidyne® Prime**.

No special room preparation is required prior to treating a room or area with the **Sanidyne® Prime**; however, target surfaces must be directly exposed to the UV rays. These rays will not penetrate materials like cloth, paper or ordinary glass, therefore, it is important to remove items from the direct line of sight that would block or shield the rays from other surfaces. The **Sanidyne® Prime** does not generate any harmful byproducts, nor does it leave any residual substances.

⚠ CAUTION It is the user's responsibility to determine and validate the suitability of the equipment for use in system or process. No warranty or representation is made by the manufacturer with respect to suitability or performance of this equipment or to the results that may be expected from its use.

⚠ CAUTION Indoor Use Only – The equipment must be sheltered from exposure to the elements and extremes in temperature. Temperature range: 40°F to 95°F. The user should periodically inspect, clean as necessary and confirm the presence and good legibility of the Product safety labels. Contact the factory for replacement labels in the event that any of the labeling is missing or illegible.

⚠ CAUTION The UV Treatment Results achieved are subject to variations in application conditions, it is recommended that culture tests be performed to confirm desired outcomes.

LIMITATIONS

- Safety procedures **MUST** be implemented to prevent ultraviolet exposure of occupants to direct or reflected ultraviolet rays. Exposure to germicidal ultraviolet rays will result in the irritation of the eyes and reddening of the skin.



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 blocking face shield (included with the purchase of the **Sanidyne® Prime**).

UNPACKING



IN ORDER TO PERFORM THIS TASK, BE SURE TO WEAR THE FOLLOWING SAFETY EQUIPMENT: SAFETY GLASSES OR A FACE SHIELD, AS WELL AS GLOVES.

- Remove the **Sanidyne® Prime** from its shipping carton.
- Atlantic Ultraviolet Corporation® takes all possible precautions when packaging this fixture to prevent damage. Carefully inspect the unit, power cord and plug for damage, report all damage immediately. Do not assemble or operate if there is any damage, visible or suspected.
- **STER-L-RAY®** Germicidal Lamps are packed separately to ensure maximum protection. Keep the lamps aside until ready for installation.
- Carefully inspect all packing materials to prevent the loss of accessories, spare parts or instructions.
- Do not discard packing materials until sanitizer is assembled and proper operation is confirmed.

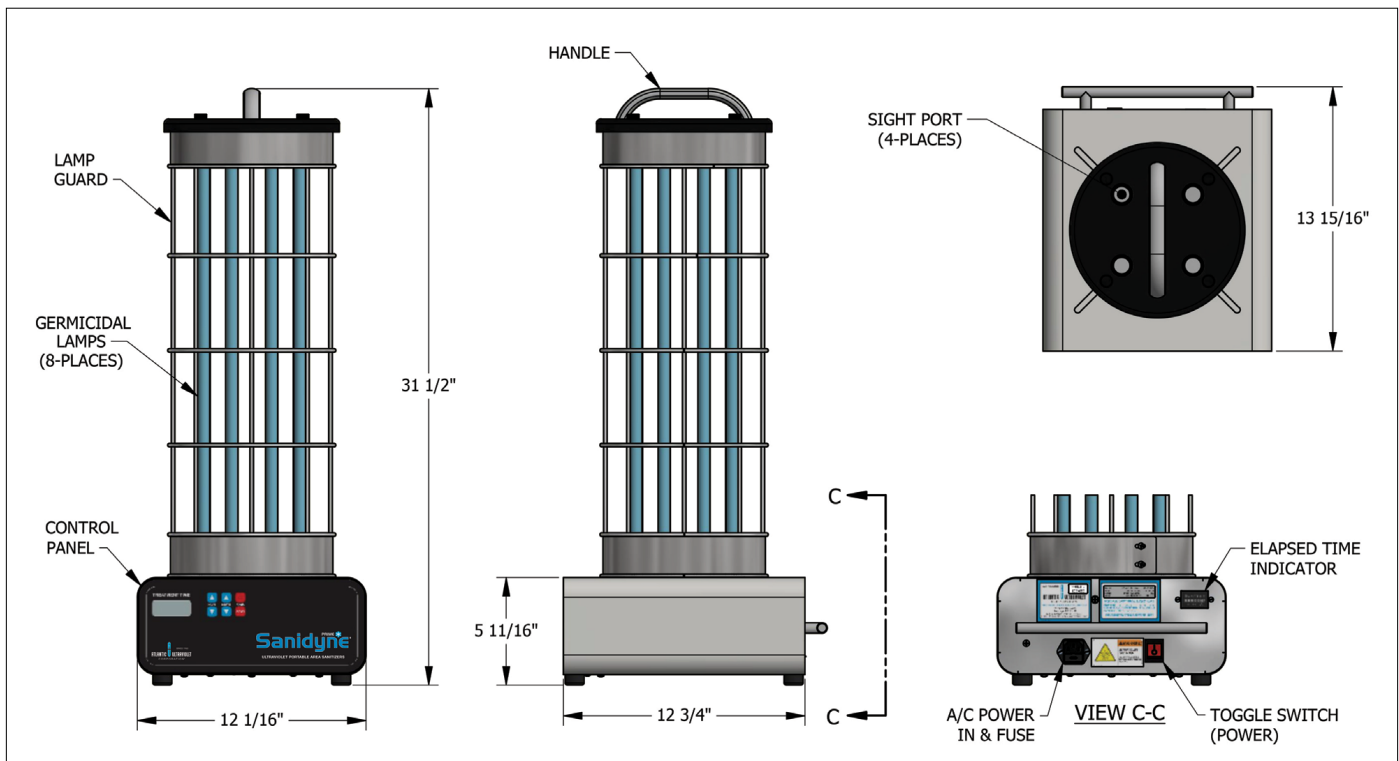
The **Sanidyne® Prime** Portable Area Sanitizer includes:

- 1 - Eight-lamp fixture with power cord - Includes a microprocessor controller with a time display and push button controls.
- 8 - **STER-L-RAY®** Germicidal Ultraviolet Lamps (Item #05-0892)
- 1 - **Promate™** Ultraviolet-Blocking Face Shield with Adjustable Headgear
- 1 - Owner's Manual
- 2 - **Promate™** Laminated Danger Signs (1 Side English / 1 Side Spanish)
- 1 - **Promate™** Laminated Danger Signs with Slits (1 Side English / 1 Side Spanish)
- 4 - Danger Labels (English applied/Spanish attached to Safety Label page in Manual)
- 2 - Danger UV Radiation Labels (English applied/Spanish attached to Safety Label page in Manual)
- 1 - Storage Cover

INSTALLATION

DIMENSIONAL DATA

Figure 1 – Dimensional Data



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

UNIT PLACEMENT

- The **Sanidyne® Prime** Portable Area Sanitizer does not require professional installation.
- **⚠ CAUTION** The **Sanidyne® Prime** is intended for use in **UNOCCUPIED AREAS ONLY**. Under no circumstances should this sanitizer be permitted to operate with humans, plants, or animals present in the Operation Area.
- Electrical power supplied to the **Sanidyne® Prime** must match power requirements listed on the unit.
- The **Sanidyne® Prime** is intended for indoor use only. The **Sanidyne® Prime** should be protected from liquid intrusion such as dripping water, condensation, or mist, and used only in a clean, dry location with temperature ranges between 40°F to 95°F.
- For maximum efficiency, the **Sanidyne® Prime** should be located as centrally as possible, away from the corners of the treatment area. The **Sanidyne® Prime** Portable Area Sanitizer is most effective when it is located in the center of the room and the ultraviolet rays are unobstructed.
- Access to the room **MUST** be avoided while the **Sanidyne® Prime** is operating.

LAMP INSTALLATION



IN ORDER TO PERFORM THIS TASK, BE SURE TO WEAR THE FOLLOWING SAFETY EQUIPMENT: SAFETY GLASSES OR A FACE SHIELD, AS WELL AS GLOVES.

⚠ CAUTION Germicidal lamps are easily damaged. Exercise care when handling lamps.

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



Always Disconnect Power to the Sanidyne® Prime



Step 1 – Release Latches



Step 2 – Loosen Four Thumbscrews

1. Remove protective storage cover by releasing the three latches on the storage cover.
2. Remove the top cover after loosening the four thumbscrews.
3. Holding the lamp vertically by the pinless base, align the connector pins on the lamp base with the socket below.
4. Carefully insert the lamp into the socket.
5. Carefully snap lamp into the lamp guide located on the lamp guard assembly.
6. Install the remaining seven lamps as described in steps 3, 4, and 5.
7. Re-install the top cover and tighten the four thumbscrews.
8. Replace the storage cover and secure using the three latches.



Step 3 – Hold Lamp by Pinless Base & Align Connector Pins with Socket Below



Step 4 – Insert Lamp into Socket



Step 5 – Snap into Lamp Guide

SANIDYNE® PRIME OPERATION

KEYPAD CONTROLLER OVERVIEW

Figure 2 – Timer Configuration



1. **Treatment Time:** Displays chosen treatment time which will countdown after start is selected. Flashes with word “PREP” during Countdown Time, the word “RUN” during Treatment Time and “DONE” when Treatment Time is completed.
2. **Hour Buttons:** Up and down buttons are used to select treatment hours between 0 and 24.
3. **Minute Buttons:** Up and down buttons are used to select treatment minutes between 0 and 59.
4. **Start Button:** Begins treatment time countdown.
5. **Power Indicator:** Glows RED when power is applied to unit and will flash during Treatment Time.

USING THE KEYPAD CONTROLLER TO SET TREATMENT TIMES

1. Treatment time on the Sanidyne® Prime is controlled by the Keypad Controller (Shown in Figure 2).
1. Setting Treatment Time on the Keypad is done using the HOURS and MINUTES buttons which are located on the front of the unit. (See Figure 2 for location) Selecting the up or down facing arrows located on the keypad in line with the HOURS or MINUTES button will either increase or decrease the hours or minutes. The hours can be set between 0 and 24, and the minutes can be set from 1 to 59. (Example of one hour and five minutes would appear as 01:05 on the Treatment Time Display).
2. Determining the proper treatment times for your specific location can be done by using the “Recommended Treatment Time for Room Size” chart (Figure 3 on Page 10).
3. Once the choice of time has been displayed on the Keypad Controller, select the START button to begin and leave the Operation Area immediately.

Once you select the START button an audible exit alarm will begin to sound and the Sanidyne® Prime will begin counting down from 1:30 seconds to allow all inhabitants to leave the area before the UV treatment begins. Additionally the word “PREP” will begin flashing on the Keypad.

⚠ CAUTION Under no circumstances should this sanitizer be permitted to operate with humans or animals present in the Operation Area. **DO NOT** return to the Operation Area until the set treatment time has expired.

TESTING UNIT OPERATION



IN ORDER TO PERFORM THIS TASK, WEAR PERSONAL PROTECTION EQUIPMENT; GLOVES, LONG SLEEVE SHIRT WITH NO GAPS BETWEEN CUFFS AND GLOVES, AND AN ULTRAVIOLET BLOCKING FACE SHIELD MUST BE WORN TO COVER AND PROTECT EYES AND EXPOSED SKIN.

1. Confirm cover is installed and 3 latches engaged. Although the cover must be fitted before testing the Sanidyne® Prime, the operator must also put on the safety face shield as an extra precaution.
2. Connect the power cord, plug into appropriate power source.
3. Turn power on using the Power Switch located on the rear of the Sanidyne® Prime (See Power Switch location shown on Figure 1-View C-C). Switch will glow RED when power is on. The POWER indicator located on Keypad Controller should also illuminate.
4. Use the HOURS and MINUTES buttons to set the treatment time to display a short time, such as 00:02 (2 minutes).
5. Press the START button. The audible alarm will beep. (Continued on Page 10)

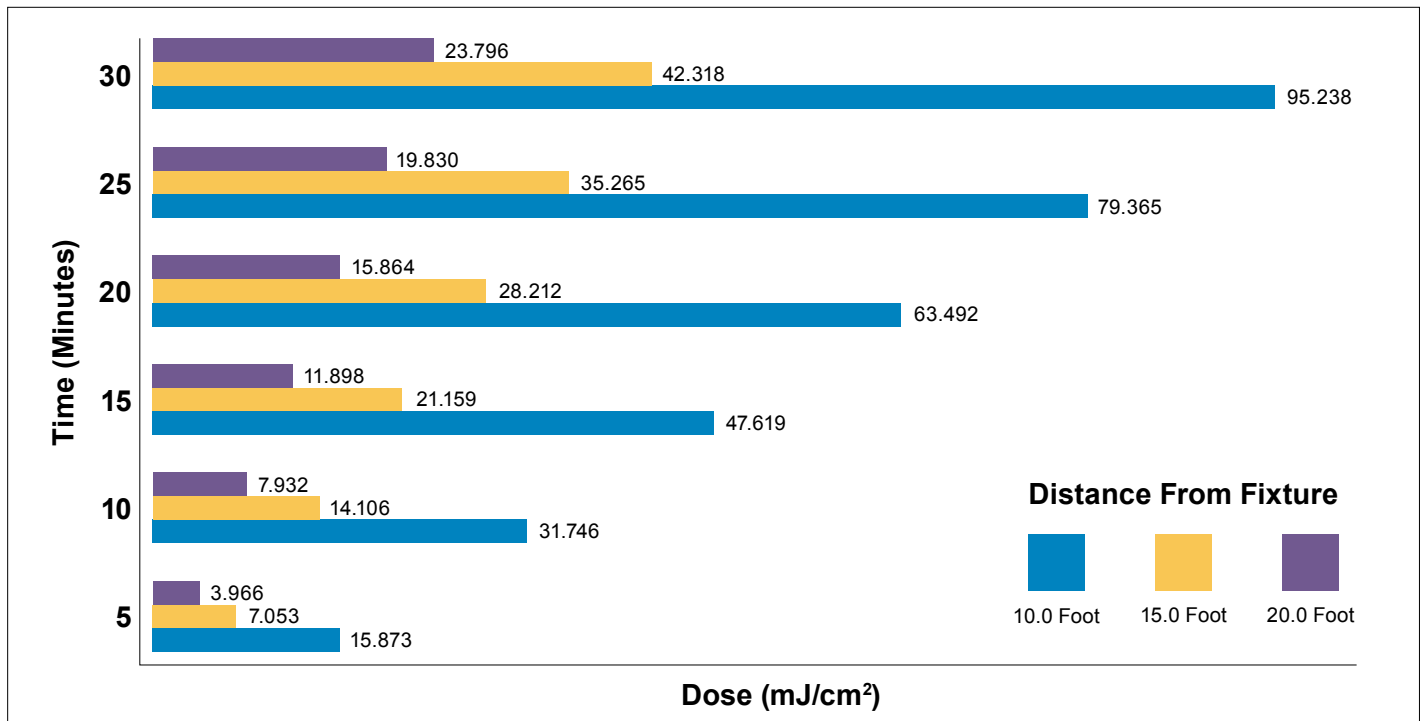
6. Press the **START** button again to pause the exit warning. Confirm that the beeping stops.
7. Press the **START** button again to restart the exit time.
8. At the end of the 1-minute, 30-second exit time, the audible alarm will stop and the **POWER** indicator light will start flashing.
9. The **STER-L-RAY**[®] Germicidal Lamps should then switch on for the time set in the digital treatment time display.
10. Ensure that all eight **STER-L-RAY**[®] Germicidal Lamps are lit through the sight ports in top cover and that lamps remain on for the time set on the digital display.
11. The power plug may be removed when treatment is finished.
12. Keep the protective storage cover in place when the **Sanidyne**[®] **Prime** is not in use

DETERMINING TREATMENT TIME

⚠ CAUTION The **Sanidyne**[®] **Prime** is intended for use in **UNOCCUPIED AREAS ONLY**. Under no circumstances should this unit be permitted to operate with humans, plants or animals present in the Operation Area. Consult our UV Application Specialists if you have any questions or need help with the **Sanidyne**[®] **Prime**.

1. The fixture should be located in the approximate center of the room and target surfaces must be directly exposed to the ultraviolet rays. It is important to remove items from direct line of sight that would block or shield UV rays from striking target surfaces. Depending on the configuration of the space, and what specific disinfection you are looking to achieve, it may be advisable to operate the **Sanidyne**[®] **Prime** on each side of large fixed objects (like a bed, or table, etc).
2. Measure the longest distance from the **Sanidyne**[®] **Prime** to the farthest wall. Use this length to compare to the Distance From Fixtures / Time (Minutes) shown on **Figure 3** below.
3. For example, if the distance from your fixture measures 15 feet, find the 15 foot mark on the bar chart for each time range. As the treatment time increase, dose increases. (**NOTE:** The number at the end of each bar is the expected dose for each time increment in millijoules per square centimeter.)
4. If a greater dose is required, increase treatment time.

Figure 3 – Recommended Treatment Time for Room Sizes - Sanidyne[®] Prime



NOTE: Dose shown above is expressed as mJ/cm² (millijoule per square centimeter).

TREATMENT CYCLE



IN ORDER TO PERFORM THIS TASK, WEAR PERSONAL PROTECTION EQUIPMENT; GLOVES, LONG SLEEVE SHIRT WITH NO GAPS BETWEEN CUFFS AND GLOVES, AND AN ULTRAVIOLET BLOCKING FACE SHIELD **MUST** BE WORN TO COVER AND PROTECT EYES AND EXPOSED SKIN.

1. When the treatment time has been determined, set the **Sanidyne® Prime** on a cleared table or on the floor in the center of the room to be treated. (Treatment is most effective when the sanitizer is in the center of the room and the ultraviolet rays are unobstructed.)
2. Post the warning sign(s) outside the entrance(s) to the area being treated and notify the appropriate persons that the area should not be entered until the disinfection cycle is complete.
3. Connect power to the **Sanidyne® Prime** and turn the power on using the toggle switch on the rear of the fixture. Once done, the red power indicator and toggle switch will illuminate.
4. Remove the protective storage cover.
5. Set the required time using the **HOURS** and **MINUTES** up and down buttons. When the Treatment time is displayed correctly, the **START** button can be pushed. An audio alarm will start beeping.
6. Pressing the **START** button again will pause the timer and allow a change of the time settings if required. Push again to reset and restart the exit time.
7. Leave area quickly (within 1 minute, 30 seconds) to avoid ultraviolet exposure.
8. After the 1-minute, 30-second exit period, the beeper will stop and the treatment time will commence.

CAUTION



If it is necessary to re-enter the treatment area before the end of the treatment cycle, protective clothing, gloves and ultraviolet blocking face shield **MUST** be worn!

MAINTENANCE



WARNING

Always disconnect power to the fixture before performing any service or maintenance.



IN ORDER TO PERFORM THIS TASK, WEAR PERSONAL PROTECTION EQUIPMENT; GLOVES, LONG SLEEVE SHIRT WITH NO GAPS BETWEEN CUFFS AND GLOVES, AND AN ULTRAVIOLET BLOCKING FACE SHIELD **MUST** BE WORN TO COVER AND PROTECT EYES AND EXPOSED SKIN.

- The **Sanidyne® Prime** is designed to operate with a minimal amount of maintenance.
- A regular cycle of cleaning the **STER-L-RAY®** Germicidal Lamps **MUST** be established based on visual inspection and experience. The frequency of cleaning will vary with the conditions surrounding each installation. It is recommended that the germicidal lamp(s) and **Sanidyne® Prime** surfaces be cleaned at least once every three (3) months.
- The **STER-L-RAY®** Germicidal Ultraviolet Lamps used in the **Sanidyne® Prime** fixture have a manufacturer's rated average effective life of 13,000 hours. **STER-L-RAY®** 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 13,000 hours of operation.
- Unless lamp replacement is due to failure or breakage, it is recommended that all lamps be replaced at the same time.
- It is recommended that the user maintain a log of all maintenance performed on **Sanidyne® Prime**. (See page 15)

LAMP INSTALLATION, REPLACEMENT, OR CLEANING

NOTE: **STER-L-RAY®** lamps used in the **Sanidyne® Prime** have **ArmorLite™** Safety Shield (which is a protective covering over the glass of the lamp—**DO NOT REMOVE** this covering.)



WARNING

Always disconnect power to the fixture before performing any service or maintenance.

CAUTION

Germicidal lamps are easily damaged and may cause injury if broken. Exercise care when handling.

1. To remove lamps, follow the steps in “**Lamp Installation**” on **Page 8** in reverse order.
2. Moisten a clean, lint-free cloth with denatured alcohol and wipe down the outer surface of the lamp.
3. When lamp has been removed and cleaned, then safely set aside, remove any loose dust or dirt from the surface of the fixture with a soft, dry cloth or vacuum.
4. To reinstall lamps, follow the steps in “**Lamp Installation**” on **Page 8**.

(Continued on Page 12)

5. Re-install the top cover and tighten the four thumbscrews.
6. Replace the storage cover and secure using the three latches.
7. Reconnect **Sanidyne® Prime** to utility power, and restart.



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

8. Wear personal protection equipment, then verify operation by viewing lamp(s) as explained in the “**Testing Unit Operation**” section on **Page 9**. If the fixture is not operating properly, go to “**Troubleshooting**” section on **Pages 12–13**.

BREAKAGE

⚠️ CAUTION Broken Quartz is **SHARP**.



Wear protective gloves when handling broken ultraviolet lamps. In the event of breakage, **DO NOT** use a household vacuum cleaner to pick up fragments of the lamp. Sweep up debris into a plastic bag and dispose of in accordance with local and/or state regulations.

DISPOSAL OF MERCURY ADDED LAMPS



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 LampRecycle.org. For more information on **STER-L-RAY®** Germicidal Ultraviolet Lamps, visit Ultraviolet.com or BuyUltraviolet.com.

TROUBLESHOOTING

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



IN ORDER TO PERFORM THIS TASK, WEAR PERSONAL PROTECTION EQUIPMENT; GLOVES, LONG SLEEVE SHIRT WITH NO GAPS BETWEEN CUFFS AND GLOVES, AND AN ULTRAVIOLET BLOCKING FACE SHIELD MUST BE WORN TO COVER AND PROTECT EYES AND EXPOSED SKIN.

IMPORTANT: This fixture is to be serviced **ONLY** by qualified and factory authorized personnel.

Table 1 – Troubleshooting

Problem	Possible Cause	Corrective Action
Sanidyne® Prime not operating	Power disconnected	Verify that the fixture is connected to a live power source.
	Fuse	Remove power connector to check and replace fuse if necessary. (See Page 13)
STER-L-RAY® lamp not operating	STER-L-RAY® Germicidal lamp faulty	Swap suspect lamp, with lamp known to be good. If suspect lamp does not operate, replace lamp.
	STER-L-RAY® Germicidal Lamp not properly seated	Confirm connection between lamp and lampholder is tight, and that lamp is making full contact with lampholder.
	Loose Connection	Inspect for loose or disconnected wires.
	Surelite™ Ballast not functioning	Disconnect the fixture from utility power. Then replace ballast
Sanidyne® Prime fails to shut off	Timer assembly faulty	Wearing protective clothing and face shield, enter area, and disconnect power to unit. Call factory for technical service.

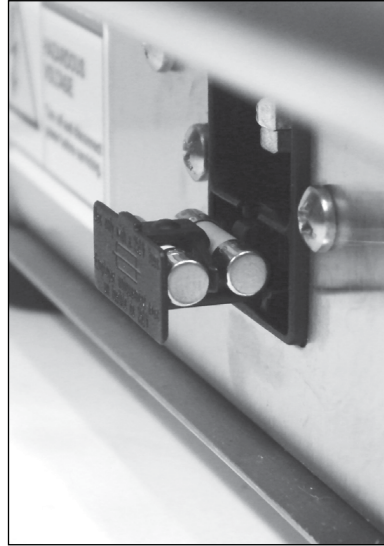
FUSE REPLACEMENT

The fuse is contained in a small plastic tray at the bottom of the power connector.

1. Remove the power connector from the back of the **Sanidyne® Prime**. A screwdriver can be used to access the fuse by inserting the blade in one of the horizontal slots and gently twisting the handle to bring the tray forward.
2. A spare fuse is accessible, clipped in front of the active fuse.



**Step 1 – Insert Screwdriver
& Bring Tray Forward**



Step 2 – Open Tray
(Spare Fuse is Clipped in Front
of the Active Fuse)

TECHNICAL SPECIFICATIONS

Table 2 – Technical Specifications

Model:		40-0633A	40-0673A
Volts:		120v	220–240v
Amps:		4.5A	2.5A
Hertz:		50/60Hz	50/60Hz
Maximum Treatment Time:		24 Hours	
Weight:		31 lbs.	
Dimensions:	Length: (Inches)	13-15/16”	
	Width: (Inches)	12-1/16”	
	Height: (Inches)	31-9/16”	
Lamp Data:	Lamp Model:	05-0892	
	Number of Lamps:	8	
	Power Consumption: ① (Watts/Lamp)	68.75W (550W Total)	
	Ultraviolet Output: ② (Watts/Lamp)	17.8W (143W Total)	
	Average Effective Life: (Hours)	13,000	

① Wattage is lamp watts only and does not include ballast loss.

② Ultraviolet output at 254nm at 100 hours and 80°F (approximate).

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

OPTIONAL ACCESSORIES

- Zenith™ UV-C Detector:** 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 **MUST** be used as general-purpose safety protection and for additional shielding from ultraviolet rays
- Additional Promate™ Face Shields:** Lightweight visor with adjustable headgear provides eye and face protection from germicidal ultraviolet rays. One (1) face shield is included with purchase of **Sanidyne® Prime** but additional face shields may be purchased.
- Additional Promate™ Danger Signs:** Laminated Signs (8-1/2" x 11") 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. Two (2) danger signs are included with purchase of **Sanidyne® Prime** but additional signs may be purchased. **NOTE:** Danger signs have English on one side and Spanish on the other.
- Additional Promate™ Danger Signs with Slits:** Laminated Signs (8-1/2" x 11") with slits to be slide on to Protective Cover and place at entry door(s) to warn that an ultraviolet sanitizer is in use and that the treatment area **MUST NOT** be entered. One (1) danger sign is included with purchase of **Sanidyne® Prime** but additional signs may be purchased. **NOTE:** Danger signs have English on one side and Spanish on the other.
- Additional Danger Labels:** (5.5" x 4.25") to be affixed to **Sanidyne® Prime** protective cover, or where needed. These warn that the ultraviolet sanitizer is in use and that the treatment area **MUST NOT** be entered. Two (2) danger sign labels (1 English / 1 Spanish) are included with the purchase of **Sanidyne® Prime** but additional labels may be purchased.
- Additional Danger Ultraviolet Radiation Labels:** (5" x 5") to be affixed to **Sanidyne® Prime** protective cover, or where needed. These warn that the ultraviolet radiation is in use and that the treatment area **MUST NOT** be entered. Two (2) Danger: Ultraviolet Radiation labels (1 English / 1 Spanish) are included with the purchase of **Sanidyne® Prime** but additional labels may be purchased.

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 • Email: Sales@AtlanticUV.com • Websites: Ultraviolet.com – BuyUltraviolet.com

REPLACEMENT PARTS

Table 3 – Replacement Parts

Item No.	Description	120v 50/60Hz	220–240v 50/60Hz
		Part No.	Part No.
1	STER-L-RAY® Germicidal Lamp	05-0892	05-0892
2	Surelite™ Ballast	10-0138	10-0138
3	Protective Storage Cover	40-0616A	40-0616A
4	Power Cord	35-1754	35-1767
5	Promate™ Face Shield & Adjustable Headgear	00-0126	00-0126
6	Promate™ Danger Sign 8.5"x 11" (1 Side English / 1 Side Spanish)	00-0098 / 00-0456	00-0098 / 00-0456
7	Promate™ Danger Sign 8.5"x 11" w/ slits (1 side English/1 side Spanish)	98-1803 / 98-1804	98-1803 / 98-1804
8	Danger Labels 5.5"x 4.25" (1 English / 1 Spanish)	70-0059	70-0059
9	Danger Ultraviolet Radiation Label 5"x 5" (English)	00-0358	00-0358
10	Danger Ultraviolet Radiation Label 5"x 5" (Spanish)	70-0060	70-0060
11	Fuse	35-0644	35-0664

Other replacement parts are available. Consult the Atlantic Ultraviolet Corporation® for specific requirements.

USER ASSISTANCE

Atlantic Ultraviolet Corporation® makes every effort to ensure that the **Sanidyne® Prime** Portable Area Sanitizer is a product of superior quality and workmanship. This manual describes the installation, operation and maintenance of the **Sanidyne® Prime** Portable Area Sanitizer.

Please read and become familiar with the contents of this manual before installing or using this unit. If after reading the manual you still have questions, or concerns, regarding the installation or use of this unit, 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
Email: Sales@AtlanticUV.com
Website: Ultraviolet.com
BuyUltraviolet.com

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.

WARRANTY & PRODUCT REGISTRATION

We warrant this product to the original owner to be free from defects in material and workmanship when installed in accordance with Atlantic Ultraviolet Corporation® specifications for a period of time as follows:

UV Water Purifier Chambers – Type 316 stainless steel chambers will have a Twelve (12) year Limited Warranty on the stainless steel chamber, from the date of original purchase while the Type 304 stainless steel chambers will have a Six (6) year Limited Warranty on the stainless steel chamber.

UV Air Disinfection Housing – Three (3) year Limited Warranty on the metal housing, from the date of original purchase.

Ballasts – Three (3) year Limited Warranty, from the date of original purchase.

UV Lamps, Monitoring Devices, Optional Accessories, and Other Parts – One (1) year Limited Warranty from the date of original purchase.

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 person; or improperly installed. Warranty will be null and void if any of the product's original labels are removed. This Limited warranty excludes the cost of labor.

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.

Be sure to register your product and validate purchase within 30 days — registration is simple and will take less than 2 minutes to do.

NOTE – failure to register your purchase may jeopardize warranty.

Go to Ultraviolet.com and scroll down to the bottom of the page, under “Trust” click the “Warranty Registration Form”, complete and click “Submit”. Or click on “Warranty Registration PDF” to download the warranty registration card as a PDF, complete and mail to us at 375 Marcus Boulevard, Hauppauge, NY 11788, or simply fax to 631-273-0771. If you prefer to register by phone, please call 631-273-0500 and our customer service staff will be glad to assist you.

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

Purchased From:	Date:
Model:	Serial No.: