

Nutripure[®]

GERMICIDAL ULTRAVIOLET SANITARY CONDITIONERS

Models 2B-SC, 3B-SC, 4B-ASC,
5B-ASC, 6B-SC, 6B-ASC



Models 2B-SC, 3B-SC



Models 4B-ASC, 5B-ASC



Models 6B-ASC



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

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Installation, Operation & Maintenance

Read and Follow All
Safety Instructions.
Save These Instructions.

Owner's Manual

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These instructions generally describe the installation, operation and maintenance of the **Nutripure®** Sanitary Conditioner. Questions that are not specifically answered 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 damage upon receipt of product. Do not install damaged equipment. Follow all instructions on all labels and 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/pictorial is used to identify an **ELECTRICAL SHOCK** or **ELECTROCUTION** hazard.

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

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

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




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







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

SAFETY INSTRUCTIONS

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

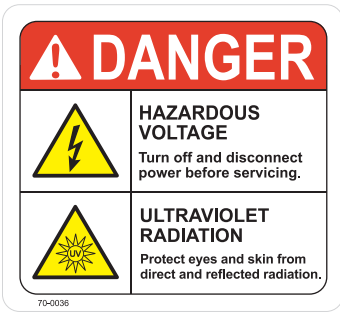
1. Read and follow ALL safety instructions.

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

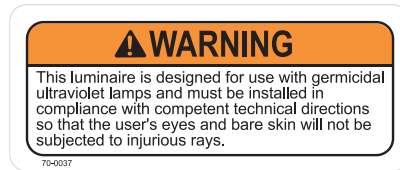
2. Do not use this product for other than its intended purpose as described in this manual.
3. Do not alter design or construction.
4. Do not remove any labels or devices.
5.  **DANGER** To prevent the risk of severe or fatal electrical shock, special precautions must be taken since liquid is present near electrical equipment. Always disconnect power before performing any service or maintenance.
6. Intended for indoor use only. The sanitary conditioner must be protected from the elements and from extremes in temperature. Ambient operating temperature range is 40°F to 100°F.
7. Do not operate sanitary conditioner if lamp cable, lamp connection, power cord and/or plug are damaged, or if any other damage to the sanitary conditioner is visible or suspected.
8. Electrical power supplied to the sanitary conditioner **MUST** match power requirements listed on the sanitary conditioner.
9.   **WARNING** Plug the sanitary conditioner into an approved ground fault circuit interrupt (GFCI) receptacle.
10.   **WARNING** Do not operate without proper electrical ground.
11. Keep inlet and outlet of the blower clean and clear of debris.
12. Stay clear of blowers or other moving parts that can cause injury.
13.  **DANGER** Always disconnect power to the unit before performing any service or maintenance.
14. Read and follow all notices and warnings on the unit.
15. **SAVE THESE INSTRUCTIONS.**

SAFETY LABELS

This Nutripure Sanitary Conditioner has the following Warning and Advisory Labels Attached Prior to Shipment:



Danger Label: Hazardous Voltage / Ultraviolet Radiation PN# 70-0036 (Measures: 2.5" x 2.25") (2-Required)



Warning Germicidal UV Label PN# 70-0037 (Measures: 1.25" x 3") (2-Required)



Hg-Lamp Contains Mercury Label PN# 70-0011 (Measures: .75" x 2.50") (2-Required)

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 the suitability or performance of this equipment or to the results that may be expected from its use.

Indoor Use Only – The equipment must be sheltered from exposure to the elements and extremes in temperature.

Temperature range: 40°F to 100°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.

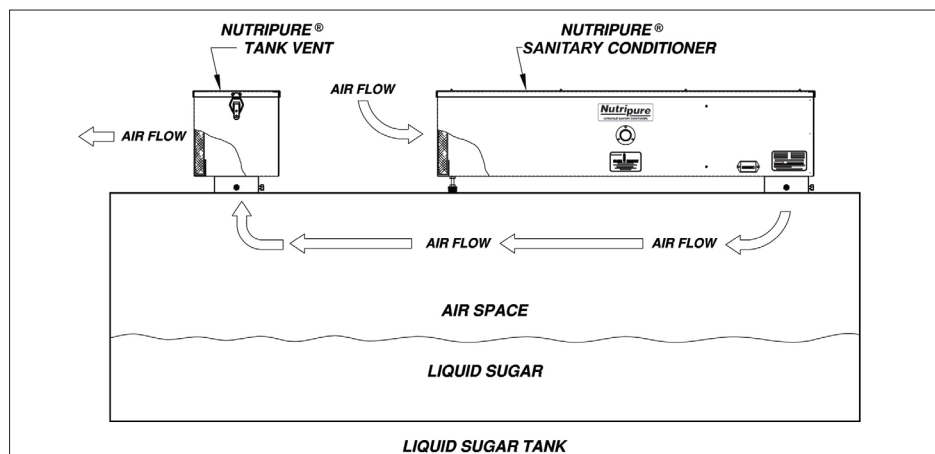
PRODUCT APPLICATION

CONSTRUCTION

The **Nutripure**[®] Sanitary Conditioner consists of:

- Genuine **STER-L-RAY**[®] Germicidal Ultraviolet Lamp(s), which deliver germicidal ultraviolet energy in the specific wavelength of 254 nanometers (nm), which is highly effective against airborne microbes including: virus, bacteria, and mold spores.
- **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.
- **Surelite**[™] 120 volt or 230 volt 50/60 Hz electronic ballasts.
- **Promate**[™] permanent, washable, electrostatic intake filter(s), capable of removing small airborne particles.
- **Promate**[™] Sight glass assemblies, which provide visual indication of **STER-L-RAY**[®] Germicidal Ultraviolet Lamp(s) operation without the risk of ultraviolet exposure.
- An enclosure and access cover constructed of stainless steel, type 304. Stainless steel construction provides strength, durability and lasting value.
- Specular Polished Exposure Chamber increases efficiency by reflecting UV rays and limiting UV absorption
- Aluminum collar which mates to 3" (Models 2B, 3B, 4B and 5B) or 4" (Model 6B) NPS tank inlet.
- Adjustable pedestal legs, used to level the **Nutripure**[®] once installed on the tank inlet. (Not applicable for Model 6B-ASC)
- A .3-micron, 99.97% minimum efficiency, HEPA Absolute Filter (Models 4B-ASC, 5B-ASC and 6B-ASC only).

Figure 1 – Installation of Pipe Collar and Pedestal Legs



PRINCIPLE OF OPERATION

The **Nutripure**[®] Sanitary Conditioner design has been carefully conceived to provide germicidal ultraviolet exposure for air disinfection. The treated air is used in the headspace of liquid storage tanks helping to prevent condensation. The dosage, as it applies to ultraviolet disinfection, is a function of time, and the intensity, of ultraviolet radiation, to which the air 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 operation of the **Nutripure**[®] Sanitary Conditioner is as follows:

1. Air is drawn into the sanitary conditioner through the electrostatic filter or pre-filter.
2. Air is forced into the exposure chamber, where it is irradiated by the germicidal ultraviolet lamp(s).
3. Sight glass provides positive indication of germicidal lamp(s) operation
4. On models with a HEPA Absolute Filter, the irradiated air is then forced through the filter which removes more than 99.97% of particles as small as 0.3 microns.
5. The purified air is circulated through the head space of the tank, keeping the air temperature inside the tank consistent with the air temperature outside the tank, helping to reduce condensation.
6. Air is exhausted out of tank through a filtered tank vent.

LIMITATION OF USE



CAUTION Exposure to germicidal ultraviolet rays will result in the irritation of the eyes and reddening of the skin. For that 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.

The American Conference of Governmental Industrial Hygienists (ACGIH) has established that the ultraviolet radiant exposure incident on 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[®]”)

UNPACKING

- Remove the **Nutripure[®]** Sanitary Conditioner from its shipping carton.
- Atlantic Ultraviolet Corporation takes all possible precautions when packaging this sanitary conditioner to prevent damage. Carefully inspect the **Nutripure[®]**, 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 lamp(s) are packed separately, to ensure maximum protection for the lamp(s). Keep the lamp(s) 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 **Nutripure[®]** is assembled and check out is complete.

Model 2B-SC:

- 1 - 72 CFM free air displacement/1-lamp **Nutripure[®]**
- 1 - **STER-L-RAY[®]** UV Lamp with **Armorlite[™]**
- 1 - Set Pedestal legs
- 1 - 2-TV Tank Vent (optional)
- 1 - Pipe Collar Screen
- 1 - Pipe Collar
- 1 - Pipe Collar Gasket Hardware

Model 3B-SC

- 1 - 140 CFM free air displacement/2-lamp **Nutripure[®]**
- 2 - **STER-L-RAY[®]** UV Lamps with **Armorlite[™]**
- 1 - Set Pedestal legs
- 1 - 2-TV Tank Vent (optional)
- 1 - Pipe Collar Screen
- 1 - Pipe Collar
- 1 - Pipe Collar Gasket Hardware

Model 4B-ASC

- 1 - 72 CFM free air displacement/1-lamp **Nutripure[®]**
- 1 - **STER-L-RAY[®]** UV Lamp with **Armorlite[™]**
- 1 - Set Pedestal legs
- 1 - 4A-TV Tank Vent (optional)
- 1 - Pipe Collar Screen
- 1 - Pipe Collar
- 1 - Pipe Collar Gasket Hardware
- 1 - HEPA Filter

Model 5B-ASC

- 1 - 140 CFM free air displacement/2-lamp **Nutripure[®]**
- 2 - **STER-L-RAY[®]** UV Lamps with **Armorlite[™]**
- 1 - Set Pedestal legs
- 1 - 4A-TV Tank Vent (optional)
- 1 - Pipe Collar Screen
- 1 - Pipe Collar
- 1 - Pipe Collar Gasket Hardware
- 1 - HEPA Filter

Model 6B-ASC

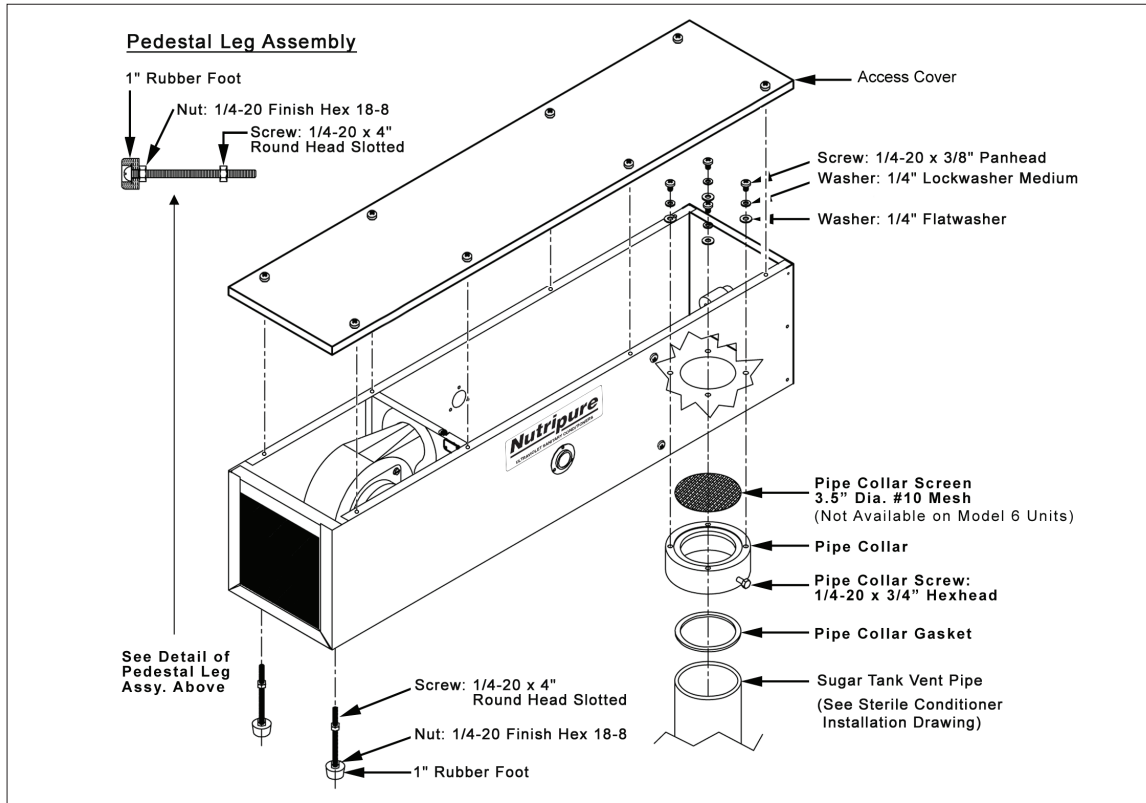
- 1 - 545/760 CFM free air displacement/4-lamp **Nutripure[®]**
- 4 - **STER-L-RAY[®]** UV Lamps with **Armorlite[™]**
- 1 - 6A-TV Tank Vent (optional)
- 1 - Pipe Collar
- 1 - Pipe Collar Gasket Hardware
- 1 - HEPA Filter

Model 6B-SC

- 1 - 295/435 CFM free air displacement/4-lamp **Nutripure[®]**
- 4 - **STER-L-RAY[®]** UV Lamps with **Armorlite[™]**
- 1 - Set Pedestal legs
- 1 - 6-TV Tank Vent (optional)
- 1 - Pipe Collar
- 1 - Pipe Collar Gasket Hardware

INSTALLATION

Figure 2 – Installation of Pipe Collar and Pedestal Legs



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

SETUP INSTRUCTIONS

- Remove access cover.

Pipe Collar

- Place screen into pocket of the pipe collar. (Not applicable for Model 6 units)
- Position pipe collar and screen over outlet of the unit.
- Using the supplied 1/4" hardware (3/8" long pan head screws, lock and flat washers) secure the pipe collar and screen to the enclosure. Tighten to prevent loosening during operation.

Pedestal Legs

- Remove the pedestal leg assembly from inside the unit enclosure. (Not applicable for Model 6B-ASC)
- Attach the pedestal legs onto the outside of the enclosure.

Sanitary Conditioner

- Place pipe collar gasket onto the vent pipe.
- Place sanitary conditioner collar over vent pipe, onto gasket.
- Level the sanitary conditioner by adjusting pedestal legs. Once level, tighten locking nut against enclosure.
- Fasten collar to vent pipe using the supplied 1/4"- 20 hex head bolts.
- Select suitable vent pipe. Attach tank vent.

Lamp Installation

Follow the steps in "Lamp Installation, Replacement, or Cleaning" in the "Maintenance" section.



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

CAUTION Users of liquid storage tanks are cautioned to adopt suitable measures to prevent overpressure or vacuum within the storage tank or liquid handling system. These conditions can result in structural damage and/or loss of the liquid contents.

TECHNICAL ASSISTANCE

Atlantic Ultraviolet Corporation® maintains a qualified team of application specialists that can provide technical assistance, which may be required during the use of this equipment. For any questions, concerns, or technical assistance, regarding this model or any of our other products, contact our application specialists. Contact options can be found in the “User Assistance” section on the back page of this manual.

MAINTENANCE

 **DANGER** Always disconnect power to the Nutripure® before performing any service or maintenance.

- The **Nutripure®** is designed to operate with a minimal amount of maintenance.
- A regular cleaning cycle of the **STER-L-RAY®** Germicidal Ultraviolet Lamp(s), interior, **Promate™** sight glass and intake filter(s) **MUST** be established, and carefully maintained, based on inspection and experience. The frequency of cleaning will vary with the conditions surrounding each installation. It is recommended that the ultraviolet lamp(s) interior, sight glass, and filters be cleaned at least once every three (3) months.
- The **STER-L-RAY®** Germicidal Ultraviolet lamp(s) used in the **Nutripure®** have a manufacturer’s rated average effective life of 10,000 hours. **STER-L-RAY®** Lamp(s) 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.

LAMP INSTALLATION, REPLACEMENT, OR CLEANING



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

 **DANGER** 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 sanitary conditioner and unplug from the electrical outlet.
2. Remove access cover. (Removal of the **Nutripure®** access cover will cause the interlock switch to interrupt power to the lamps and blower. **DO NOT** attempt to bypass or circumvent the interlock switch or its safety feature.)
3. Remove **STER-L-RAY®** lamp(s), carefully press lamp against the spring-loaded lampholder, when **STER-L-RAY®** lamp pin clears the stationary lampholder, pull **STER-L-RAY®** lamp out, and away from **Nutripure®**.
4. Moisten a clean, lint-free cloth with denatured alcohol and clean lamp(s).
5. When **STER-L-RAY®** lamp(s) have been removed, cleaned and safely set aside, remove any loose dust or dirt from the interior of the **Nutripure®** with a soft dry cloth, or vacuum.
6. To remove any dust, dirt, fingerprints, smears, etc, from the outer surfaces of the conditioner, moisten a clean, lint-free cloth with denatured alcohol and wipe down the conditioner. Buff out any streaks, left from the cleaning, using a soft dry cloth.
7. Install **STER-L-RAY®** lamp(s), insert lamp pin into spring-loaded lampholder. Carefully press **STER-L-RAY®** lamp against the spring-loaded lampholder. Align lamp pin with stationary lampholder. Slowly ease the pressure until **STER-L-RAY®** lamp is fully seated in lampholders.
8. Verify that **STER-L-RAY®** lamp(s) is properly seated.
9. Repeat until all **STER-L-RAY®** lamps have been cleaned and properly reinstalled.
10. Install Access Cover. Restore power to the **Nutripure®**.



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

11. Wear personal protection equipment, then verify operation by viewing **STER-L-RAY®** lamps(s). If the fixture is not operating properly, go to “Troubleshooting” section.

INTAKE FILTER

- The **Nutripure**® Sanitary Conditioners are fitted with a **Promate**™ permanent, washable, electrostatic air filter(s). **DO NOT** apply oil, or adhesive sprays to the filter(s).
- In most applications, regular vacuuming will maintain peak performance of the **Promate**™ Electrostatic Filter(s); periodically flushing electrostatic filter(s) with clean water is recommended whenever vacuuming fails to restore a clean appearance.
- **Promate**™ Electrostatic Filter(s) may be cleaned repeatedly without loss of efficiency. The frequency of cleaning will vary with the conditions surrounding each installation.
- The **Promate**™ absolute HEPA filter is not washable and must be replaced after one year of continuous operation.

CLEANING OF ELECTROSTATIC FILTER



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

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

1. Disconnect power to the **Nutripure**® and unplug from the electrical outlet.
2. Remove access cover. (Removal of the **Nutripure**® access cover will cause the interlock switch to interrupt power to the lamps and blower. **DO NOT** attempt to bypass or circumvent the interlock switch or its safety feature.)
3. Remove **Promate**™ filter(s) from the housing, noting airflow direction. The label on the filter frame shows the direction of air flow through the filter.
4. Vacuum the upstream side first, and repeat on the discharge side. Skip to step 7.

CAUTION **DO NOT** use a high velocity water stream to clean the filter. A high velocity stream may damage the filter's internal fibers.

5. To wash **Promate**™ filter(s), flush thoroughly with clean water, either by immersing or with a fine spray in the direction opposite to the airflow. If the filter(s) is contaminated with heavy grease concentrations, wash filter(s) with a detergent solution. **NOTE: Follow all manufacturer's instructions and precautions for handling detergents. The filter(s) should be rinsed thoroughly with clean water.**
6. Shake off any excess water from **Promate**™ filter(s) and let dry.
7. Replace **Promate**™ filter(s) into the housing, with airflow direction label pointing into the electrical enclosure.
8. Reinstall access cover.
9. Plug **Nutripure**® into the electrical outlet to restore power.
10. Verify operation by viewing lamp(s) through **Promate**™ sight glass. If the **Nutripure**® is not operating properly, go to "Troubleshooting" section

BREAKAGE

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 quartz fragments. Sweep up debris into a plastic bag and dispose of properly.

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 AtlanticUltraviolet.com or Ultraviolet.com.

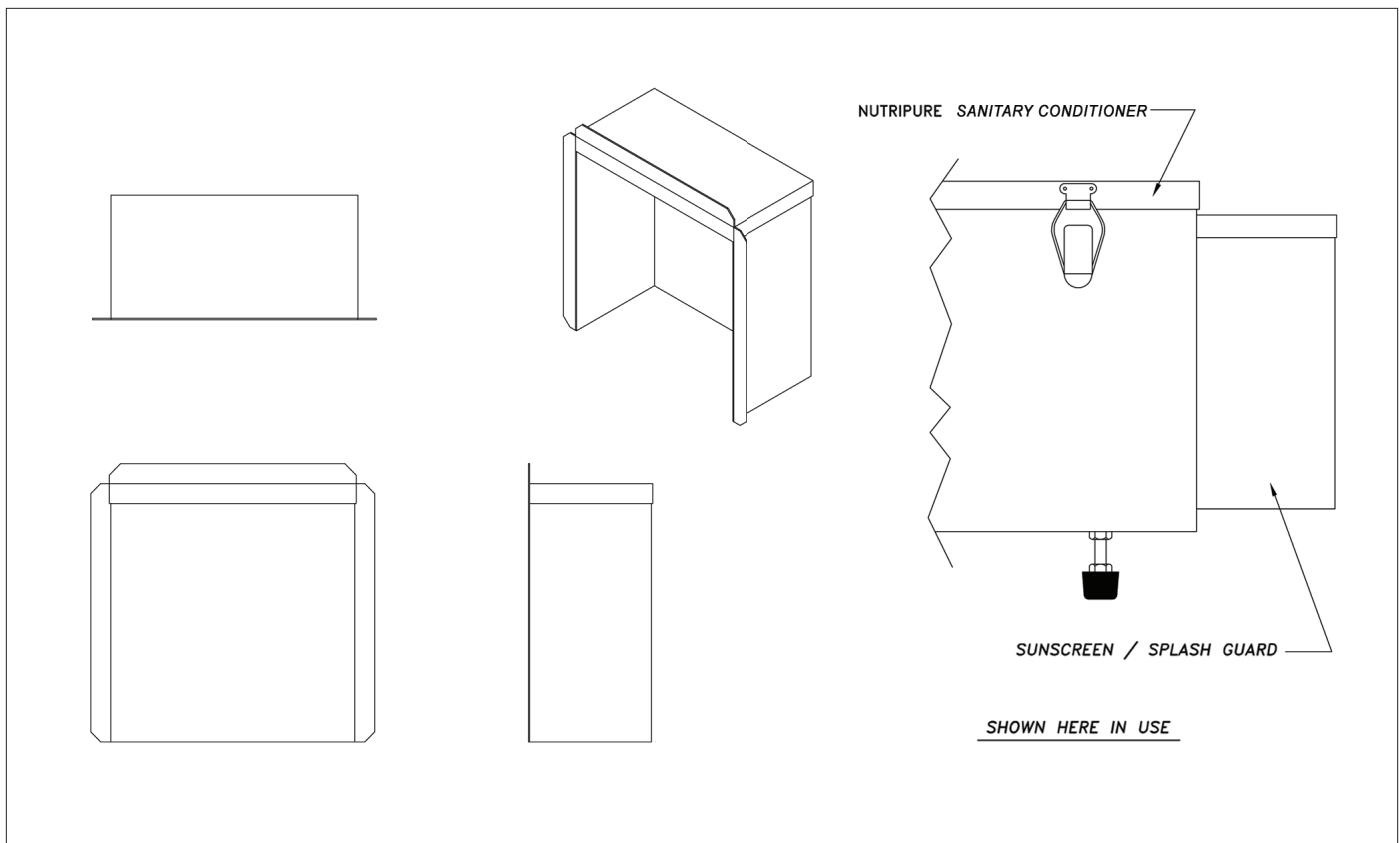
OPTIONAL ACCESSORIES

- **SENTINEL® Germicidal Ultraviolet Lamp Operation Indicator***: Monitors individual lamp operation, in any location up to 100 feet from the **Nutripure®** Sanitary Conditioner. Extension cables are also available.
- **Elapsed Time Indicator***: A non-resettable display of the operating hours. Useful for scheduling and recording maintenance and lamp replacement.
- **Integral Key Lock Switch***: Ensures tamper proof operation, in either the “ON” or “OFF” position.
- **Disposable Filters**: Cardboard frame filters, for use when frequent filter changes are necessary.
- **Sunscreen/Splash Guard**: Manufactured in type 304 stainless steel. Shields the filter from direct exposure to the sun, dust, falling debris and liquid sprays. (See **Figure 3** below)

* This accessory must be ordered at the time of initial equipment purchase. All other accessories can be ordered and installed at the time of initial equipment purchase and installation or added at a later date.

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 • Shop: AtlanticUltraviolet.com • Learn More: Ultraviolet.com

Figure 3 - Installation of Pipe Collar and Pedestal Legs



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

TROUBLESHOOTING

 **DANGER** Always disconnect power to the Nutripure® 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 Nutripure®.

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

Table 1 – Troubleshooting

Problem	Possible Cause	Corrective Action
Nutripure® not operating	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.
Internal blower not functioning	Loose power connection	Confirm connection to blowers; connections are tight and making full contact.
	Faulty blower motor	Replace blower motor.
STER-L-RAY® Germicidal UV lamp not operating	STER-L-RAY® Germicidal Lamp inoperative	Swap suspect lamp, with known good lamp. If known good lamp does not operate, replace ballast.
	STER-L-RAY® Germicidal Lamp not properly seated	Confirm contact between lamp and lampholder is tight and lampholder is making full contact with lamp.

If the above measures fail to correct the problem(s) contact our UV Application Specialists. Contact options can be found in the “User Assistance” section of this manual located on the back page.

REPLACEMENT PARTS

Table 2 – Replacement Parts

MODEL	2B-SC	3B-SC	4B-ASC	5B-ASC	6B-SC	6B-ASC
STER-L-RAY® UV Lamp with ArmorLite™ (QTY)	05-6011 (1)	05-6011 (2)	05-6011 (1)	05-6011 (2)	05-6013 (4)	05-6013 (4)
Surelite™ Ballast: 120v 50/60Hz	10-0137	10-0137	10-0137	10-0137	10-0137	10-0137
Surelite™ Ballast: 220v 50/60Hz	10-0136	10-0136	10-0136	10-0136	10-0136	10-0136
Blower: 120v	40-0104A	40-1079B	40-0104A	40-1079B	40-1078B	40-0020B
Blower: 220v	40-0032A	40-0031A	40-0032A	40-0031A	40-0078	40-0311A
Promate™ Electrostatic Filter	40-7058B	40-7058B	40-9078B	40-9078B	40-1266B	40-1266B
Promate™ HEPA Filter	—	—	40-1202A	40-1202A	—	40-0021A
Tank Vent Filter	40-7058B	40-7058B	40-9078B	40-9078B	40-1266B	40-1266B

TECHNICAL SPECIFICATIONS

Table 3 – Technical Specifications

MODEL	2B-SC	3B-SC	① 4B-ASC	① 5B-ASC	6B-SC	① 6B-ASC
Tank Size Gallons	up to 6,000	7,000 – 18,000	up to 6,000	6,000 – 15,000	15,000 – 30,000	15,000 – 30,000
Free Air Displacement (cfm)	72	140	72	140	295/435	545/760
Volts	120v	120v	120v	120v	120v	120v
Amps	1.3	2.9	2.00	2.90	4.93	4.93
Length (inches)	34-1/2"	34-1/2"	48"	48"	46-1/16"	61-7/16"
Width (inches)	7-3/4"	7-3/4"	10-1/4"	10-1/4"	14-1/4"	14-1/4"
Height (inches)	7-3/4"	7-3/4"	10-1/4"	10-1/4"	12-1/6"	12-1/6"
STER-L-RAY® Ultraviolet Lamp with ArmorLite™	05-6011	05-6011	05-6011	05-6011	05-6013	05-6013
Quantity of Lamps	1	2	1	2	4	4
Power Consumption (W)*	25	50	25	50	128	128
Ultraviolet Output (Watts)**	8.5	17	8.5	17	45.6	45.6
Tank Vent	2-TV 40-1024B	2-TV 40-1024B	4-ATV 40-1028B	4-ATV 40-1028B	6-TV 40-0003B	6-ATV 40-0058A
Length (inches)	6-1/32	6-1/32	16-1/4	16-1/4	14-1/2	22-5/8
Width (inches)	7-3/4	7-3/4	10-1/4	10-1/4	12-1/4	14-1/4
Height (Inches)	7-3/4	7-3/4	10-1/4	10-1/4	12-1/4	12-1/4

① Specifically recommended for liquid sugar storage tanks.

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

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

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

MAINTENANCE NOTES

MAINTENANCE NOTES

MAINTENANCE NOTES

USER ASSISTANCE

Atlantic Ultraviolet Corporation® makes every effort to ensure that the **Nutripure®** Sanitary Conditioner is a product of superior quality and workmanship. This manual describes the installation, operation and maintenance of the **Nutripure®** Sanitary Conditioner.

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

Atlantic Ultraviolet Corporation®
375 Marcus Boulevard
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Learn More: Ultraviolet.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 AtlanticUltraviolet.com and scroll down to the bottom of the page, under “Trust,” and click “Warranty Registration Form.” Complete form and click “Submit.” Or email us at Sales@AtlanticUV.com for a PDF of the warranty registration card, which you can print and mail to 375 Marcus Boulevard, Hauppauge, NY 11788, or 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 **Nutripure®** Sanitary Conditioner. Keep this manual, along with proof of purchase, handy when contacting our offices.

Purchased From:	Date:
Model:	Serial No.: