

Nutripure®

SANITARY CONDITIONERS

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



Models 2B-SC / 3B-SC



Models 4B-ASC / 5B-ASC



Model 6B-ASC

Installation, Operation & Maintenance

ATLANTIC  **ULTRAVIOLET**
CORPORATION®

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ultraviolet.com

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Owner's Manual

TABLE OF CONTENTS

SAFETY WARNINGS	3
SAFETY INSTRUCTIONS	3
PRODUCT APPLICATION	4
CONSTRUCTION	4
PRINCIPLE OF OPERATION	4
LIMITATIONS	5
UNPACKING	5
INSTALLATION	6
SETUP INSTRUCTIONS	6
<i>PIPE COLLAR</i>	6
<i>PEDESTAL LEGS</i>	6
<i>SANITARY CONDITIONER</i>	6
<i>LAMPS</i>	6
MAINTENANCE	7
LAMP INSTALLATION, REPLACEMENT OR CLEANING.....	7
INTAKE FILTER	7
<i>CLEANING OF ELECTROSTATIC FILTER</i>	8
BREAKAGE	8
DISPOSAL OF MERCURY ADDED LAMP.....	8
OPTIONAL ACCESSORIES	9
TROUBLESHOOTING	10
TECHNICAL SPECIFICATIONS	11
REPLACEMENT PARTS	11
USER ASSISTANCE	12
WARRANTY	12
PATENT NOTICE.....	12

These instructions generally describe the installation, operation and maintenance of the **Nutripure**[®] Sanitary Conditioner. 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.



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

⚠ 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 **ULTRAVIOLET LIGHT** 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 the need to wear approved ultraviolet resistant face shield.

⚠ 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 protective gloves.

CAUTION

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

- 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 unit for other than its intended purpose, as described in this manual.
5. Do not override safety interlock.
6. Do not remove any labels or devices.
7. Do not mount under any source of moisture or condensation.
8. **⚠ CAUTION:** Do not operate without proper electrical ground.
9. Do not operate the unit if there is visible or suspected damage to the unit or, if applicable, there is damage to power cord and/or plug.
10. Keep inlet and outlet, of the blowers, clean and clear of debris.
11. Do not operate without access cover secured.
12. Stay clear of blowers, or other moving parts that can cause injuries.
13. Utility power supplied, to the unit, **MUST** match power requirements listed on the unit label.
14. **⚠ WARNING:** Always disconnect power to the unit before performing any service or maintenance.
15. Read and follow all notices and warnings on the unit.
16. **SAVE THESE INSTRUCTIONS.**

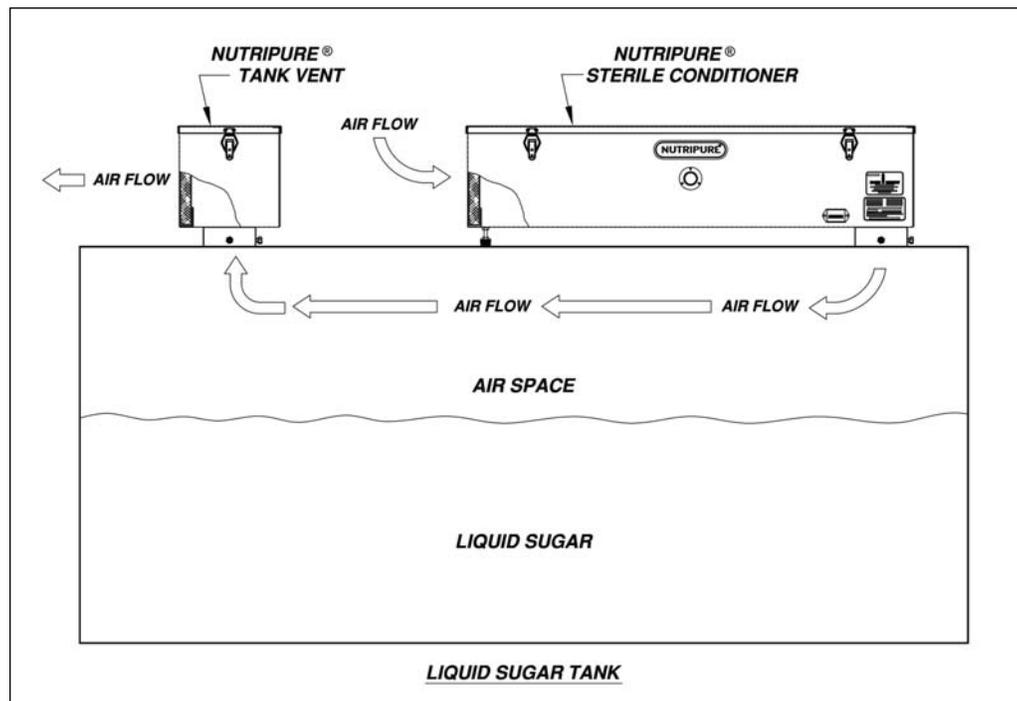
PRODUCT APPLICATION

CONSTRUCTION

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

- 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, insures protection by eliminating the dangers associated with fragments of broken quartz and mercury contamination.
- Standard three-prong plug, and operates on 120V 60Hz single-phase standard household current (230V 50/60Hz also available).
- Permanent, washable, electrostatic intake filter(s), capable of removing small airborne particles.
- Sight glass assemblies, which provides visual indication of germicidal 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.
- Aluminum collar which mates to 3" (Models 2B, 3B, 4B and 5B) or 4" (Model 6B) IPS tank inlet.
- Adjustable pedestal legs, used to level the **Nutripure**® once installed on the tank inlet.
- A .3-micron, 99.97% minimum efficiency, HEPA type, absolute filter (Models 4B-ASC, 5B-ASC and 6B-ASC only).

Figure 1 - Sanitary Conditioner Install



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 and HEPA filter (if applicable).
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. The purified air is circulated through the headspace of the tank, keeping the air temperature inside the tank consistent with the air temperature of outside the tank, helping to reduce condensation.
5. Air is exhausted out of tank through a filtered tank vent.

LIMITATIONS

- Overexposure 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 for unprotected eyes or skin should not exceed 0.2 microwatts per square centimeter (**μW/cm²**) 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 unit 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.
- 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 unit is assembled and check out is complete.

Model 2B-SC

- 1 - 72 CFM free air displacement/1-lamp unit
- 1 - Germicidal Ultraviolet Lamp with **Armorlite™**
- 1 - Set Pedestal legs
- 1 - **2-TV** Tank Vent (optional)
- 1 - Pipe Collar Gasket

Model 4B-SC

- 1 - 72 CFM free air displacement/1-lamp unit
- 1 - Germicidal Ultraviolet Lamp with **Armorlite™**
- 1 - Set Pedestal legs
- 1 - **4-TV** Tank Vent (optional)
- 1 - Pipe Collar Gasket

Model 5B-SC

- 1 - 140 CFM free air displacement/2-lamp unit
- 2 - Germicidal Ultraviolet Lamps with **Armorlite™**
- 1 - Set Pedestal legs
- 1 - **4-TV** Tank Vent (optional)
- 1 - Pipe Collar Gasket

Model 6B-SC

- 1 - 295/435 CFM free air displacement/4-lamp unit
- 4 - Germicidal Ultraviolet Lamps with **Armorlite™**
- 1 - Set Pedestal legs
- 1 - **6-TV** Tank Vent (optional)
- 1 - Pipe Collar Gasket

Model 3B-SC

- 1 - 140 CFM free air displacement/2-lamp unit
- 2 - Germicidal Ultraviolet Lamps with **Armorlite™**
- 1 - Set Pedestal legs
- 1 - **2-TV** Tank Vent (optional)
- 1 - Pipe Collar Gasket

Model 4B-ASC

- 1 - 72 CFM free air displacement/1-lamp unit
- 1 - Germicidal Ultraviolet Lamp with **Armorlite™**
- 1 - Set Pedestal legs
- 1 - **4A-TV** Tank Vent (optional)
- 1 - Pipe Collar Gasket
- 1 - Absolute Filter

Model 5B-ASC

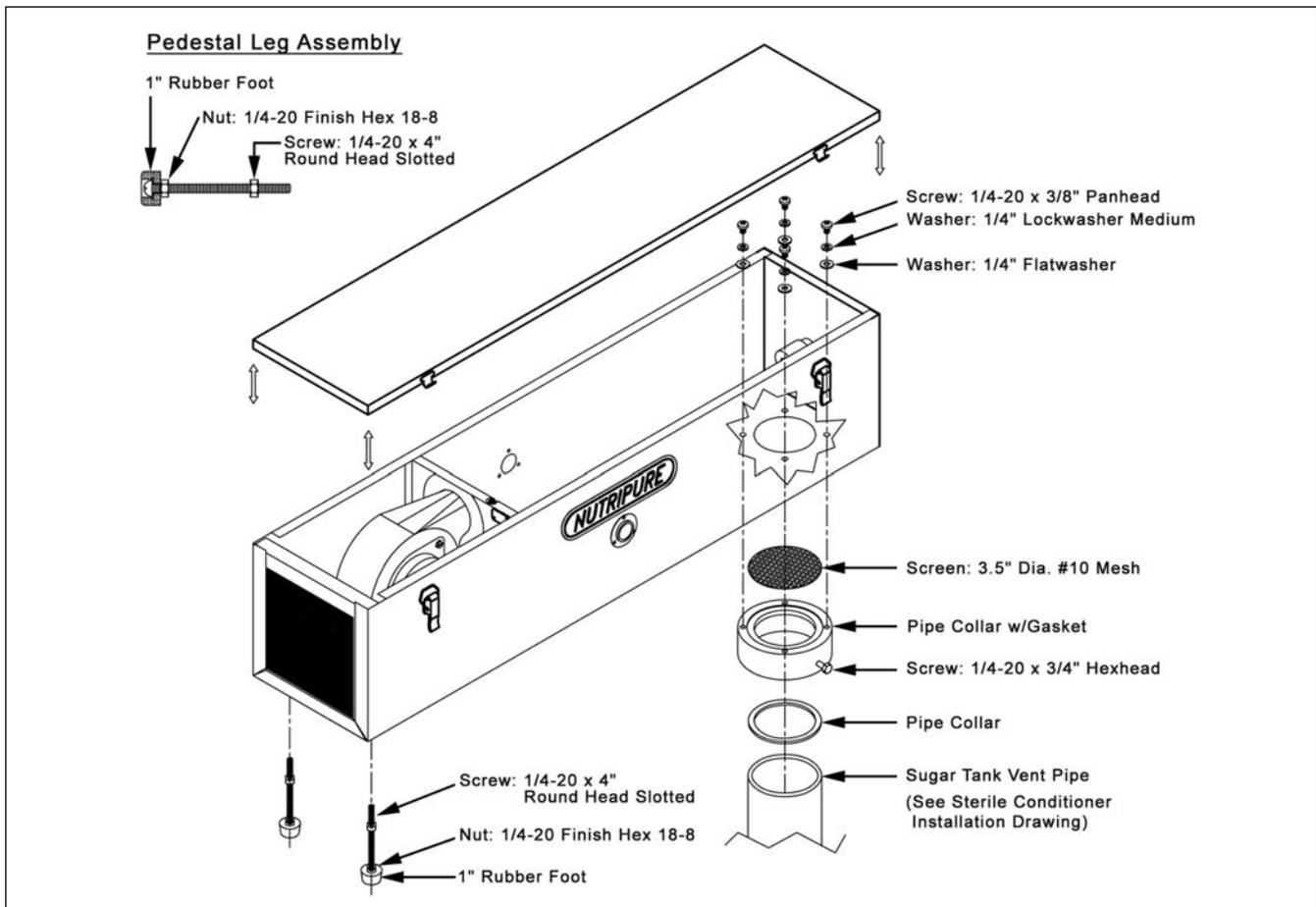
- 1 - 140 CFM free air displacement/2-lamp unit
- 2 - Germicidal Ultraviolet Lamps with **Armorlite™**
- 1 - Set Pedestal legs
- 1 - **4A-TV** Tank Vent (optional)
- 1 - Pipe Collar Gasket
- 1 - Absolute Filter

Model 6B-ASC

- 1 - 545/760 CFM free air displacement/4-lamp unit
- 4 - Germicidal Ultraviolet Lamps with **Armorlite™**
- 1 - Set Pedestal legs
- 1 - **6A-TV** Tank Vent (optional)
- 1 - Pipe Collar Gasket
- 1 - Absolute Filter

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

- Unlatch and remove access cover.

PIPE COLLAR

- Place screen into pocket of the pipe collar.
- 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.
- Attach the pedestal legs onto the outside of the enclosure.

SANITARY CONDITIONER

- Place pipe collar gasket onto the vent pipe.
- Place sanitary conditioner 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 on page 7.



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

MAINTENANCE

- The **Nutripure**[®] is designed to operate with a minimal amount of maintenance.
- A regular cleaning cycle of the germicidal lamps, interior, sight glass and intake filter(s) should 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) be cleaned at least once every three (3) months.
- The germicidal ultraviolet lamps used in the **Nutripure**[®] 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 unit before performing any service or maintenance.

LAMP INSTALLATION, REPLACEMENT OR CLEANING

▲ WARNING: Always disconnect power to the unit before performing any service or maintenance.

▲ CAUTION: Ultraviolet lamps are easily damaged and may cause injury if broken. Exercise care when handling lamps.

1. Disconnect power to the unit and unplug from the electrical outlet.
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 unit .
3. Moisten a clean, lint-free cloth with denatured alcohol and clean lamp(s).
4. When lamp(s) have been removed, cleaned and safely set aside, remove any loose dust or dirt from the interior of the unit with a soft dry cloth, or vacuum.
5. 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.
6. 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.
7. Verify that lamp(s) is properly seated.
8. Repeat until all lamps have been cleaned and properly reinstalled.
9. Restore power to the unit.



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

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

INTAKE FILTER

- The **Nutripure**[®] Sanitary Conditioners are fitted with 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 electrostatic filter(s); periodically flushing electrostatic filter(s) with clean water is recommended whenever vacuuming fails to restore a clean appearance.
- Electrostatic Filter(s) may be cleaned repeatedly without loss of efficiency. The frequency of cleaning will vary with the conditions surrounding each installation.
- The absolute HEPA filter is not washable and must be replaced after one year of continuous operation.

CLEANING OF ELECTROSTATIC FILTER

▲ WARNING: Always disconnect power to the unit before performing any service or maintenance.

1. Disconnect power to the unit and unplug from the electrical outlet.
2. Unlatch and remove access cover.
3. Remove 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 destroy the filter's internal fibers.

5. To wash 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 filter(s) and let dry.
7. Replace filter into the housing, with airflow direction label pointing into the electrical enclosure.
8. Replace and re-latch access cover.
9. Plug unit into the electrical outlet to restore power.
10. Verify operation by viewing lamps through sight glass. If the unit 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 fragments of the lamp(s).** 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 <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>.

OPTIONAL ACCESSORIES

- * **Sentinel™ Lamp Operation Indicator:** Monitors individual lamp operation, in any location up to 25 feet from the Nutripure® Sanitary Conditioner. Extension cables are also available. Can incorporate harness with output for tie in to control panel or PC board.*
- * **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 tamperproof operation, in either the "ON" or "OFF" position.*
- **Disposable Filters:** Cardboard frame filters, for use when frequent filter changes are necessary.
- 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.

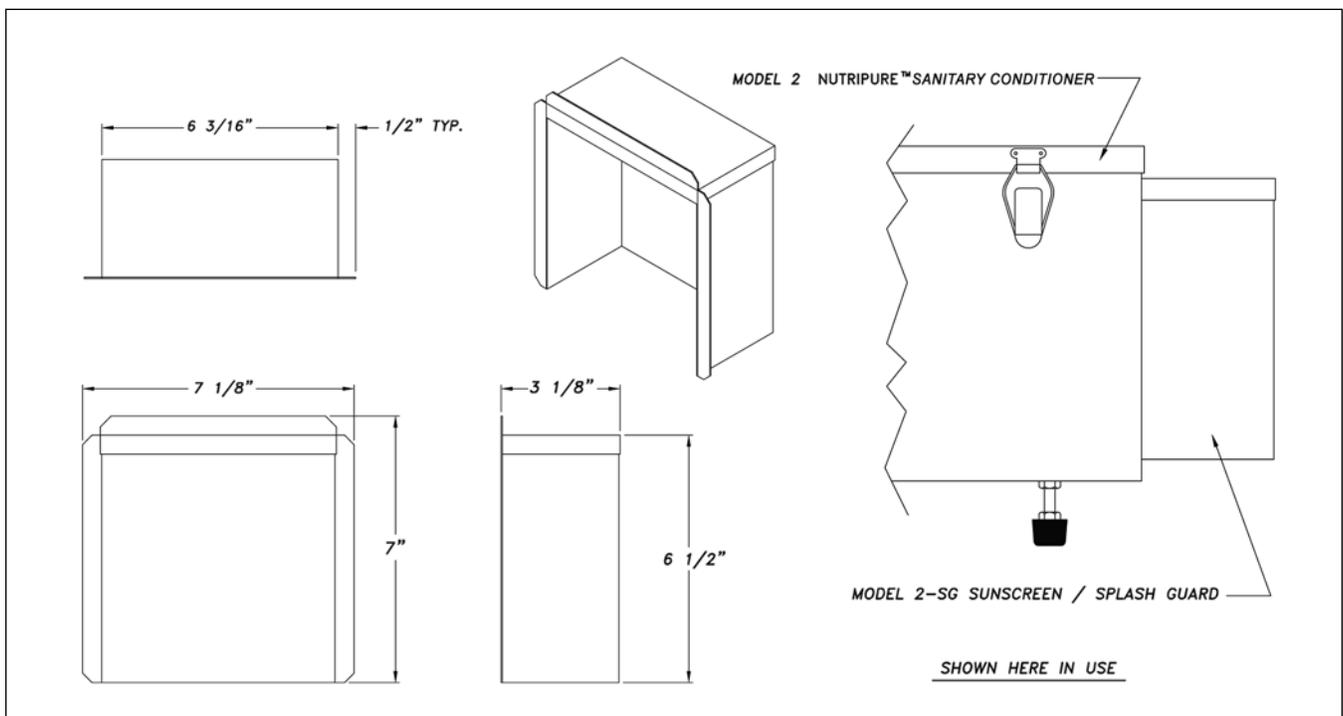
- **Sunscreen/Splash Guard:** Manufactured in type 304 stainless steel. Shields the filter from direct exposure to the sun, dust, falling debris and liquid sprays. (See Figure 3 below)

* 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 • E-mail: info@ultraviolet.com • Website: www.ultraviolet.com

Figure 3 - Model 2-SG Sunscreen/Splash Guard



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

TROUBLESHOOTING

⚠ WARNING: Always disconnect power to the unit 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®** outside of duct.

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

Table 1 - Troubleshooting

Problem	Possible Cause	Corrective Action
Unit not operating.	No electrical power...	Verify that the unit is connected to a live power source.
	Power connections, loose or disconnected...	Verify power connections 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.
Germicidal lamp not operating.	Germicidal lamp not operating...	Swap suspect lamp, with known good lamp. If suspect lamp still does not operate, replace lamp.
	Germicidal lamp not properly seated...	Confirm contact of lamp and lamp socket, contacts are tight and lamp socket is making full contact with lamp.

If the above measures fail to correct the problem(s), contact our application specialists. Contact options can be found in the "User Assistance" section of this manual.

TECHNICAL SPECIFICATIONS

Table 2 - Technical Specifications

Model	2B-SC	3B-SC	4B-SC	(1) 4B-ASC	5B-SC	(1) 5B-ASC	6B-SC	(1) 6B-ASC
Tank Size Gallons	up to 6,000	7,000 - 18,000	up to 6,000	up to 6,000	7,000 - 18,000	7,000 - 18,000	20,000 - 50,000	20,000 - 50,000
Free Air Displacement (cfm)	72	140	72	72	140	140	295/435	545/760
Volts	120	120	120	120	120	120	120	120
Amps	1.3	2.9	2.00	2.00	2.90	2.90	4.93	5.96
Length (inches)	34 ½	34 ½	32	48	32	48	43 1/16	61 7/16
Width (inches)	7 ¾	7 ¾	10 ¼	10 ¼	10 ¼	10 ¼	14 3/16	14 ¼
Height (inches)	7 ¾	7 ¾	10 ¼	10 ¼	10 ¼	10 ¼	12 1/16	12 1/16
Germicidal Ultraviolet Lamp with ArmorLite™	05-1348-R 05-0478	05-1348-R 05-0478	05-1348-R 05-0478	05-1348-R 05-0478	05-1348-R 05-0478	05-1348-R 05-0478	05-1352-R 05-0479	05-1352-R 05-0479
Power Consumption (w) *	25	25	25	25	25	25	32	32
Ultraviolet Output (watts/lamp)**	8.5	8.5	8.5	8.5	8.5	8.5	11.2	11.2
Tank Vent	2-TV 40-1024B	2-TV 40-1024B	4-TV 40-1200B	4-ATV 40-1028B	4-TV 40-1200B	4-ATV 40-1028B	6-TV 40-0003A	6-ATV 40-0058A
Length (inches)	6 1/32	6 1/32	6	16 ¼	6	16 ¼	14 1/2	22 5/8
Width (inches)	7 ¾	7 ¾	10 1/8	10 ¼	10 1/8	10 ¼	12 ¼	14 ¼
Height (inches)	7 ¾	7 ¾	10 1/16	10 ¼	10 1/16	10 ¼	12 ¼	12 ¼

(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.

REPLACEMENT PARTS

Table 2 - Replacement Parts

Model	2B-SC	3B-SC	4B-SC	4B-ASC	5B-SC	5B-ASC	6B-SC	6B-ASC
Germicidal Ultraviolet Lamp with ArmorLite™	05-1348-R 05-0478	05-1348-R 05-0478	05-1348-R 05-0478	05-1348-R 05-0478	05-1348-R 05-0478	05-1348-R 05-0478	05-1352-R 05-0479	05-1352-R 05-0479
Ballast: 120v 50/60Hz	10-0137	10-0137	10-0137	10-0137	10-0137	10-0137	10-0137	10-0137
Ballast: 230v 50/60Hz	10-0136	10-0136	10-0136	10-0136	10-0136	10-0136	10-0136	10-0136
Blower	40-0104A	40-1079B	40-0104A	40-0104A	40-1079B	40-1079B	40-1078B	40-0020A
Electrostatic Filter	40-7058B	40-7058B	40-9078B	40-9078B	40-9078B	40-9078B	40-1266B	40-1266B
HEPA Filter	---	---	---	40-1202A	---	40-1202A	---	40-0021A
Tank Vent Filter	40-7058B	40-7058B	40-9078B	40-9078B	40-9078B	40-9078B	40-1266B	40-1266B

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

USER ASSISTANCE

Atlantic Ultraviolet Corporation makes every effort to ensure that the **Nutripure**[®] Sanitary Conditioners are products of superior quality and workmanship. This manual describes the installation, operation and maintenance of the **Nutripure**[®] Sanitary Conditioners.

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

E-mail: info@ultraviolet.com
Website: www.ultraviolet.com

Please REGISTER your product immediately - you can do this in a number of ways. Go online to 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 **Nutripure**[®] Sanitary Conditioner. Keep this manual, along with proof of purchase, handy when contacting our offices.

Purchased From:	Date:
Model:	Serial No.:

WARRANTY

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.

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.