

UV Sterilizer - Connection to Forcemain

Notes: The transformer/ballast unit is not to be submerged. If installed in a high groundwater area - use optional installation method as shown on page 2.

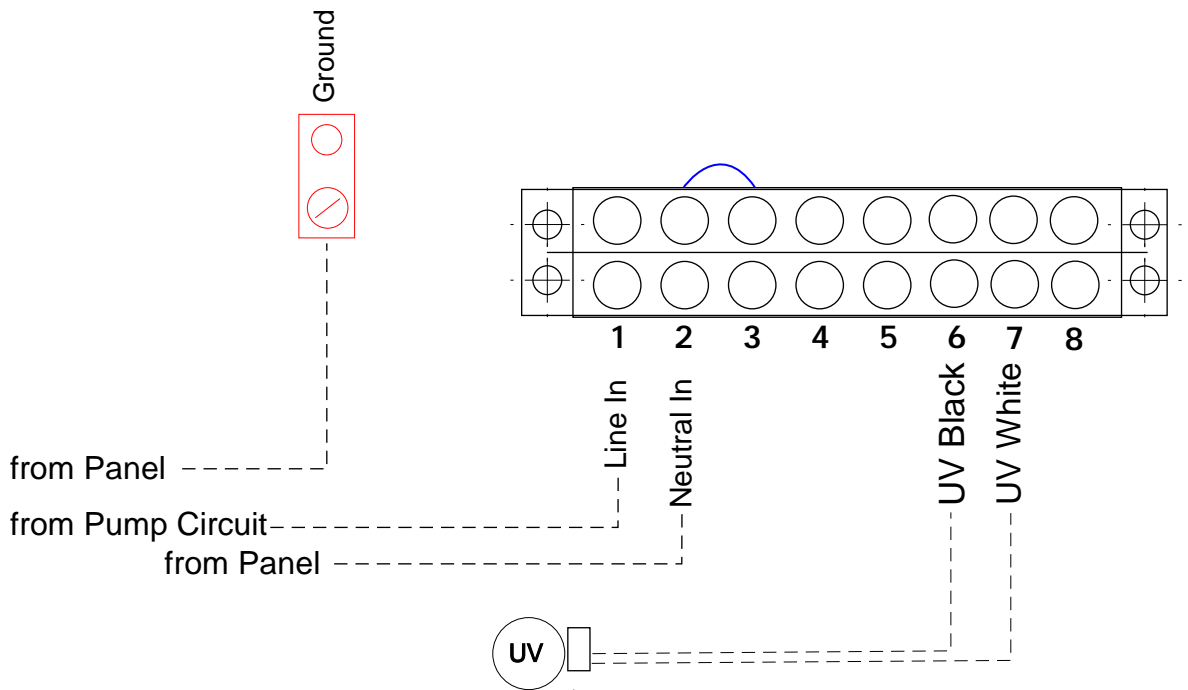


CAUTION: Always turn off the pump and disconnect electricity from the unit prior to any maintenance.

O₂Si UVx40 Sterilizer

Drawn By: JSP
Date: 03-12-15
Revised:
Scale: As Shown

O₂Si
Obsidian Onsite Services, inc.
P.O. Box 100
Tappahannock, VA 22560
(804) 925-1484



Dotted Lines Indicate Field Connections

Connect Line In from Pump Circuit at Main Control Panel

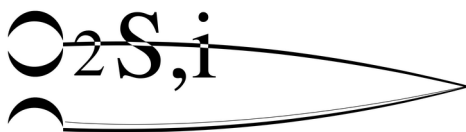
IMPORTANT - Leave Enough Slack in the SJ Cord so the Lamp Assembly can be Removed from the Housing.

Note: FINAL SETTINGS

1. Turn Delay Dial to MAX
2. Turn Sensitivity Dial to 10%

To Run a Test:

1. Energize Pump Circuit
2. Turn Delay Dial to MIN
3. Increase Sensitivity Dial until the alarm actuates



Obsidian Onsite Services, inc.

Custom UVx40 Alarm Panel

PO Box 100, Tappahannock, VA 22560
804-925-1484 obsidianonsite@verizon.net

O₂Si Ultra-Violet Sterilizer

HOW ULTRAVIOLET WORKS

The Ultraviolet Lamp emits a germicidal ray which alters or disrupts the DNA or RNA of single celled organisms such as algae, bacteria and protozoa. By properly implementing an Ultraviolet System in-line, these organisms can be eradicated effectively without any harmful residuals.

Your Ultraviolet System was made to work as a control for single celled organisms. This unit will not completely sterilize the treated wastewater.

As a part of the wastewater treatment, this unit will effectively lower wastewater's bacterial count.

The Ultraviolet Sterilizer works better on filtered water. Any sediment in the water can inhibit UV Transmission.



CAUTION: Do not look at or handle UV Lamps when lit outside of the housing. Considerable Ultraviolet energy is emitted which may produce severe sunburn and/or conjunctivitis. As long as the UV light is in its housing it is 100% safe for humans and fis



NOTE: If you touch the Lamp use denatured alcohol and a soft cloth to clean the Lamp. If you do not clean the Lamp the fingerprints will become etched into the glass which will diminish UV output and may cause premature lamp failure.



NOTE: Lamps and Quartz Sleeves should be handled with care. Lamps and Quartz Sleeves are not warranted against breakage or damage.



WARNING: Do not install the Lamp at an angle (even a slight angle); this may cause a U shaped crack at the end of the Quartz Sleeve, or possible breakage of the Lamp. If this should happen, do not proceed with the installation. Purchase a new Quartz Sleeve or Lamp from your dealer and refer to the proper installation instructions.



NOTE: Do not force the Lamp into the Quartz Sleeve.

UV40watt Sterilizer Rating:

60,000 microWatt per centimeter squared at 24 gallons per minute.

30,000 microWatt per centimeter squared at 48 gallons per minute.

UV57watt Sterilizer Rating:

60,000 microWatt per centimeter squared at 26.5 gallons per minute.

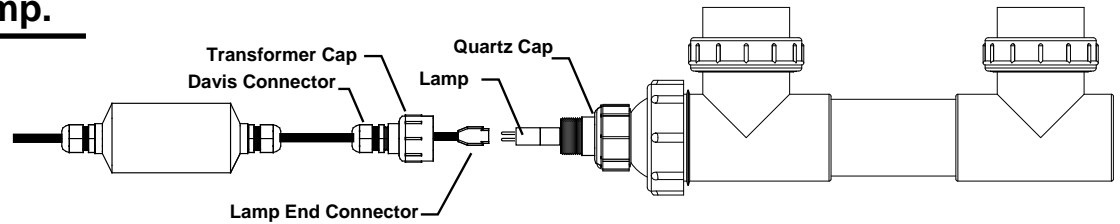
30,000 microWatt per centimeter squared at 53 gallons per minute.

MAINTENANCE



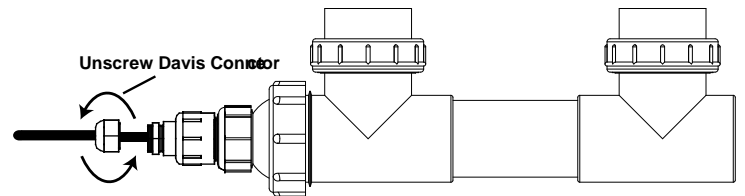
CAUTION: Always turn off the pump and disconnect electricity from the unit prior to any maintenance.

Changing the Lamp.

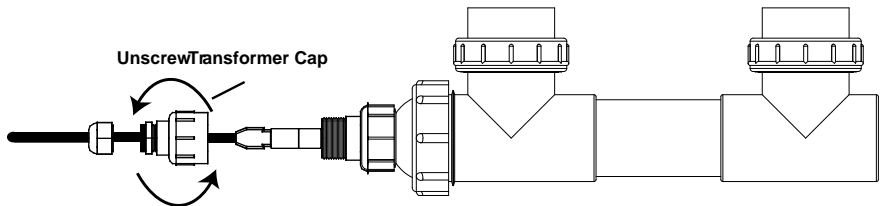


1. Unplug the UV from the power source and turn off the pump.

2. Unscrew the Davis or Hubl Connector located behind the Transformer Cap, this allows your Transformer Cap to spin freely.



3. Twist off the Transformer Cap.



4. Slide Lamp out, be careful not to slide the Lamp out at an angle, even a slight angle, this may cause a "U" shaped crack at the end of the Quartz Sleeve, or possible breakage of the Lamp. A Broken Lamp or Quartz Sleeve are not covered under warranty.

5. Disconnect the Lamp End Connector from the old Lamp.

6. Plug the new Lamp flush into the Lamp End Connector. If the Lamp is not plugged in all the way it may cause damage to the unit and is not covered under warranty.

7. Insert the Lamp straight into the Quartz Sleeve. Be careful, inserting the Lamp at an angle, even a slight angle, can cause a "U" shaped crack in the Quartz Sleeve.

8. Twist on the Transformer Cap. Hand tighten.

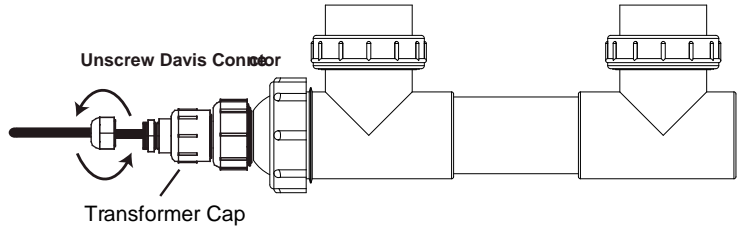
9. Tighten the Davis or Hubl Connector located behind the Transformer Cap.

10. **BE SURE THE TRANSFORMER CAP AND DAVIS CONNECTOR ARE TIGHTENED - THIS MUST BE A WATER TIGHT CONNECTION TO PROTECT THE LAMP.**

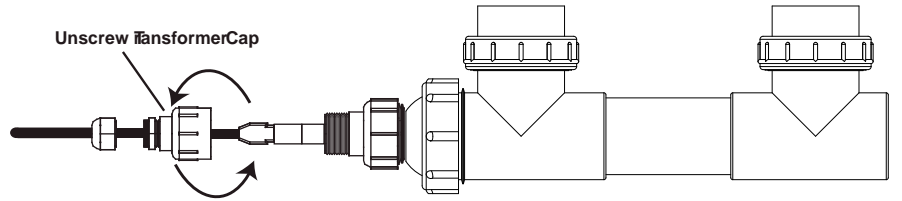
CLEANING THE QUARTZ SLEEVE

1. Unplug the UV from the power source and turn off the pump.

2. Unscrew the Davis or Hubl Connector located behind the Transformer Cap, this allows your Transformer Cap to spin freely.



3. Twist off the Transformer Cap.



4. Slide Lamp out, be careful not to slide the Lamp out at an angle, even a slight angle, this may cause a "U" shaped crack at the end of the Quartz Sleeve, or possible breakage of the Lamp. Set the lamp on a secure level surface to avoid breakage.

5. Remove the E-Z Twist Top. The Quartz Sleeve Assembly will come out with it. Be careful to pull it out straight.

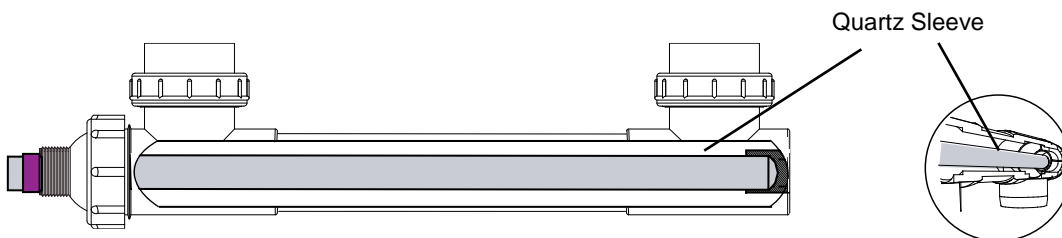


NOTE: The Lamps and Quartz Sleeves should be handled with care. Lamps and Quartz Sleeves are not warranted against breakage and damage.

6. The Quartz Sleeve can be cleaned with Lime Away, CLR or similar products.

Do not use any type of abrasive substance on the Quartz Sleeve as it may scratch the Quartz.

7. To reinstall the Quartz Sleeve, carefully insert the Quartz Sleeve into the end of the UV body. Be sure the Quartz Sleeve is seated in the bottom of the UV Unit.



8. Screw on the E-Z Twist Top. Do not over-tighten the E-Z Twist Top. Re-install the Lamp.