

Installation Guide for Sterilight UV Systems

[Safety Instructions](#)

[Installation](#)

[Installation Precautions](#)

[Operating and Maintenance Instructions](#)

[Print this Guide Here \(Adobe PDF File\)](#)

Safety Instructions

WARNING - to guard against injury, basic safety precautions should be observed, including the following:

- READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
- DANGER - To avoid possible electric shock, special care should be taken since water is present near electrical equipment. Unless a situation is encountered that is explicitly addressed by the provided maintenance and troubleshooting sections, do not attempt repairs yourself, refer to an authorized service facility.
- Carefully examine the water sterilizer after installation. It should not be plugged in if there is water on parts not intended to be wet.
- Do not operate the water sterilizer if it has a damaged cord or plug, if it is malfunctioning or if it is dropped or damaged in any manner.
- Always disconnect water flow and unplug a water sterilizer before performing cleaning or maintenance activities. Never yank the cord to remove from an outlet. Grasp the wall plug and pull to disconnect.
- Do not use this water sterilizer for other than intended use (potable water applications). The use of attachments not approved, recommended or sold by the manufacturer/distributor may cause an unsafe condition.
- Intended for indoor use only. Do not install this water sterilizer where it will be exposed to the weather or to temperatures below freezing. Do not store this water sterilizer where it will be exposed to the weather. Do not store this water sterilizer where it will be exposed to temperatures below freezing unless all water has been drained from it and the water supply has been disconnected.
- Read and observe all the important notices and warnings on the water sterilizer.
- If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less Amperes or Watts than the water sterilizer rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
- SAVE THESE INSTRUCTIONS.

Installation Precautions

Water quality is extremely important for the optimum performance of your UV system. Only install the sterilizer when the following have a ppm count less than:

- Total Iron less than 0.3
- Hydrogen Sulphide less than 0.05
- Suspended Solids less than 10.0
- Manganese less than 0.05

Where Total Hardness is less than 7 grains per gallon, the UV unit should operate efficiently provided the lamp/quartz sleeve is cleaned periodically. If total hardness is over 7 gpg, the water should be softened.

This sterilizer is specifically designed to supply water free of virtually all bacteria, viruses, algae and fungi by irradiating the water with powerful ultraviolet light. The result is bacteriologically safe water without the use of potentially harmful chemicals. Nature's Way, with no residual disinfecting agent in your water.

Installation



- CAUTION, electronic ballast must be connected to a grounded receptacle and the lamp connector ground wire connected to the stainless steel reactor chamber.
 - The sterilizer is designed to be mounted horizontally or vertically at the point-of-use or point-of-entry depending on the specific flow rate of the unit. The ideal installation is vertical with the lamp connector on top.
 - The ballast should be mounted either above or beside the reactor chamber. This will prevent moisture caused by condensation from entering the ballast enclosure, causing a potential for ballast failure.
 - The complete water system, including any pressure or hot water tanks, must be sterilized before start up by flushing with chlorine, (household bleach), to destroy any residual contamination.
 - For safety purposes, the sterilizer should be connected to a ground fault interrupt circuit.
 - The sterilizer is intended for indoor use only. Do not install the sterilizer where it may be exposed to the weather.
 - Install the sterilizer on cold water lines only.
 - If treating the entire house, install the sterilizer before any branch lines.
 - A 5 micron sediment filter must precede the sterilizer. Ideally, the sterilizer should be the last treatment the water receives before it reaches the faucet.
1. For shipping purposes, the UV lamp is shipped in a separate cardboard tube. Carefully remove the UV lamp from the shipping tube being careful not to touch the "glass" portion with your fingers. Insert the UV lamp into the quartz sleeve and chamber making sure the connection end is inserted last. Mount the sterilizer to the wall with the supplied clamp(s). If required, a double-end clamp can be purchased from your dealer to affix to an RO membrane.
 2. If the sterilizer is to be hard plumbed, make sure you leave enough clearance in front of the lamp connector to facilitate lamp service. (A length equal to the length of the unit should suffice).
 3. Various connection methods can be used to connect the water source to the sterilizer. However, union type connectors are recommended. The use of a flow restrictor device is strongly recommended when installing your sterilizer in order that the manufacturers recommended flow rate not be exceeded. These flow restrictors are available from your dealer. In addition, the use of a bypass assembly is recommended for emergency use of untreated water when your sterilizer is being serviced. Please Note: When the UV unit is returned to service after being on bypass, the complete water system must be sterilized once again with chlorine, (household bleach), to destroy any contamination that may have entered the distribution system while on bypass. **DO NOT SOLDER CONNECTIONS WHILE ATTACHED TO THE STERILIZER AS THIS COULD DAMAGE THE O-RING SEALS.**
 4. Prior to connecting the power source, check all connections to ensure that they are indeed secure. Turn on the water supply and check for any leaks. If satisfied that there are no leaks, proceed with the following steps.
 5. To properly ground the stainless steel generating chamber, attach the green wire coming from the power source to the grounding lug on the UV chamber. Remove the green cap nut and slide the eyelet connector onto the screw. Fasten the cap nut to the screw with a 5/16" wrench.
 6. The power source provided with your sterilizer must be located within (5) feet of an electrical outlet.

DO NOT USE AN OUTLET THAT CAN BE SWITCHED OFF, (I.E. A WASTE DISPOSAL OUTLET). Attach the lamp connector to the UV lamp and press into the aluminum gland nut. Plug the ballast into the outlet and ensure the POWER-ON LED is illuminated. The audible ballast will enter a self test mode when power is first applied to verify ballast operation. NOTE: If ballast enters alarm condition, power must be removed for 30 seconds to allow ballast to reset. NOTE: As the system requires time to reach its full operating capacity, please allow the sterilizer to operate 3-5 minutes prior to using the water from the unit. In addition, to clear any air or debris from the system, open the faucet and allow water to run through the sterilizer for 2-3 minutes. (When using an RO application, run the water for 30-45 seconds).

Operating and Maintenance Instructions

1. NOTE: PRIOR TO PERFORMING ANY WORK ON THE STERILIZER, ALWAYS DISCONNECT THE POWER SUPPLY FIRST.
2. Regularly inspect your sterilizer to ensure that the UV lamp is operating.
3. Replace the UV lamp with a new lamp after one year of continuous use to ensure a high bacteria and virus kill rate. It should be noted that the UV lamp should be ON continuously as repeatedly turning the lamp on and off will severely shorten the lamp life and allow bacteria to pass through without being affected by the UV.
4. To replace the UV lamp, follow the steps below:
 - Disconnect power.
 - Disconnect the lamp connector by carefully separating it from the gland nut. (Use the aid of a slot screwdriver if required).
 - Disconnect the lamp connector from the lamp and carefully remove the UV lamp.
 - Replace with a new lamp being careful not to touch the new UV lamp "glass" with your fingers as oils may impair UV transmission. If contact does occur, clean lamp with alcohol and reconnect lamp connector.
 - Carefully replace lamp into stainless steel cell.
 - Press lamp connector into aluminum gland nut.
 - Plug power source into outlet.
 - Verify POWER-ON LED is illuminated and ballast audible start-up sequence operates.