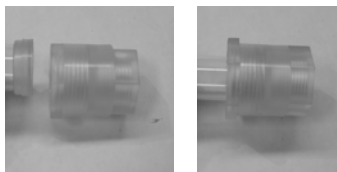
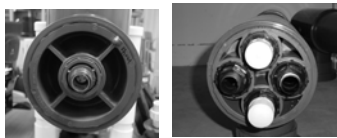


## Amalgam UV Sterilizer

<u>Item#</u>	<u>Watts</u>	<u>Lamps</u>	<u>Inlet/Outlet</u>
3201	200	1 HO (high output)	2", 3", 4", 6" Union
3202	400	2 HO	2", 3", 4", 6" Union
3203	600	3 HO	2", 3", 4", 6" Union
3204	800	4 HO	2", 3", 4", 6" Union

Amalgam ultraviolet high output sterilizers are for pond applications where clear water is a necessity. The units insure efficient sterilization and are made of UV resistant plastic. They are available with 2", 3", 4" or 6" inlet/outlets. They are completely watertight and weatherproof, corrosion resistant, and safe for indoor and outdoor use. They are not submersible. The light can be monitored through the clear sleeves. The T6 style quartz lamp average 9,000 hours before reaching the end of its useful lamp life (60% efficiency). A watertight lamp removal port makes for safe operation and easy lamp installation and replacement. All Amalgam sterilizers include quartz sleeves, bulbs, a ballast assembly and a ten foot power cord. The units have ballasts mounted in a NEMA4X enclosure (gutter box). Standard units are 120V/60Hz (230V 50/60Hz available by special order). One year limited warranty on the body does not include lamps or quartz sleeves. (Lamp and quartz sleeve are not warranted: product is tested before packaging). Ballasts have a two year limited warranty.

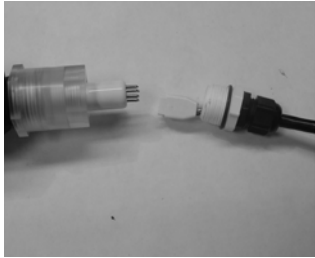
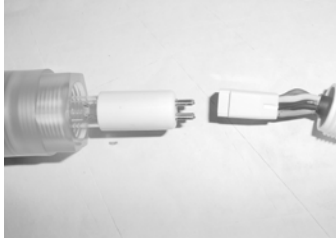
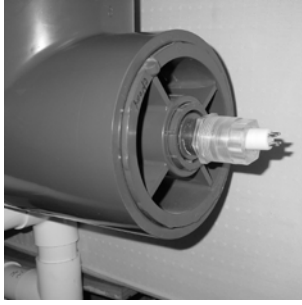
Use the included glove to handle the quartz lamp tube so as to not to transfer any oil from your hand onto the surface. Contamination of the tube can degrade lamp performance or cause premature failure of the lamp.



When placing or mounting the sterilizer unit it must be positioned either horizontally with the inlet and outlet tubes bottom in order to maintain a full flow of water through the unit. Do not place the unit on its side, (lying down horizontally) with the inlet and outlet tubes horizontal, as this will not maintain at full flow of water through the unit causing it to overheat. When placed on end vertically do not orient it with the inlet tube at the top as this will not maintain a full flow of water through the unit. See illustration at top left for proper positioning.

The quartz sleeve is already installed inside the sterilizer unit. These instructions are to help you install the quartz lamp(s) into the quartz sleeve(s) and to attach the ballast(s) to the quartz lamp(s). **BEFORE INSTALLING THE LAMP(S) HOWEVER, CONNECT THE STERILIZER TO YOUR SYSTEM TO MAKE SURE IT IS WATERTIGHT.** There should be no water seepage around the clear thermoplastic coupling(s) or at any other connections in the sterilizer housing. Run your system for approximately ten minutes to make sure it does not leak before installing the lamp. If necessary, you can tighten the clear thermoplastic coupling by turning it slightly

clockwise to seal. Once you have determined that your system and the sterilizer are set up correctly and it is watertight you can install the lamp(s).



Before inserting the lamp into the quartz sleeve, drop the blue ball cushion into the quartz sleeve. This cushion will help prevent the lamp from hitting the quartz sleeve, causing damage or breakage. Care must be taken to hold the lamp straight, slowly and accurately slide it through the clear thermoplastic coupling into the quartz sleeve so as not to break either the glass sleeve or lamp. Once the lamp is fully inside the sleeve hold it by the metal end with the tip just outside of the opening of the clear female coupling. Brace your finger against the clear female coupling, while holding the metal tip, in order to steady the lamp while you attach the square four pin connector with your other hand. Carefully push the pin so that it is seated flush against the end of the metal lamp tip. Loosen the back lock nut on the strain relief and slide it down the electrical cord. Push the lamp fully into the unit until it touches the opposite end. This is to make sure it is fully past the clear female coupling so it does not overheat and prematurely burn out. Slide the black lock nut up and hand tighten. Next you need to seal the opening.



It is imperative to tighten the strain relief in the following order so as not to damage the wiring of the ballast which will void your warranty: Do not turn the clear thermoplastic coupling. Carefully hand-tighten the black strain relief (liquid tight straight-thru cord grip) against the clear thermoplastic coupling. Then slide the black lock nut up and tighten. When replacing a lamp please follow these directions in reverse precisely. If your lamp is burnt out, first unscrew the black lock nut on the strain relief. Once it is completely loosened and separated from the strain relief, you can slide it down the electrical cord far enough to get it out of the way. Then unscrew the black strain relief from the clear thermoplastic female coupling. Pull the metal tip of the lamp out through the opening of the clear females coupling, and brace your finger that is holding the metal tip against the clear female coupling in order to steady the lamp while you unplug the square four pin connector with your other hand. Carefully slide the lamp slowly out of the unit. Failure to proceed in this order will cause damage to the wires of the ballast voiding your warranty. Please be sure to always use the included glove when handling your quartz lamp so as to avoid contamination of the tube.

In the event that you do break the quartz sleeve or the quartz lamp our patented system will make it easy to replace. Carefully remove the lamp following the directions above, paying special attention to loose glass pieces and sharp broken edges. Next, unscrew the opposite end of the sterilizer unit to remove the rest of any broken glass pieces paying special attention to loose glass pieces and sharp broken edges. We sell both replacement sleeves and lamps to fit your unit. If you are replacing the quartz sleeve remove the clear silicone seal off of the top of the broken quartz sleeve and replace it onto the new sleeve. You will need to unscrew and remove the clear female coupling in order to insert the new quartz sleeve through the black two end male coupling. Do not turn the black two end male coupling as it is already installed watertight onto the unit. Next carefully insert the new quartz sleeve straight into the sterilizer unit and feel to make sure it is indexed correctly; push it completely into the unit. Screw the clear plastic female coupling onto the black two end male coupling and carefully hand tighten. DO NOT USE TEFLON TAPE ON THE THREADS OF THE BLACK TWO END MALE COUPLING WHEN ATTACHING THE CLEAR PLASTIC FEMALE COUPLING ONTO IT. This will cause the connection to become too thick creating pressure which will immediately crack the quartz sleeve. Next run your system for approximately ten minutes to make sure it is watertight and there are no leaks. When you are certain there are no leaks you can proceed as above to install the lamp according to the directions above.

If you should have any questions when installing your lamp into the sterilizer unit please call us at 951-360-7878 and we would be happy to help. Thank you.