

GAMMA UV™

Aquarium Ultraviolet Sterilizers

Instructions for Models
#1400-8w, 1401-15w, 1402-25w

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WHAT'S NEXT

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SAFETY INSTRUCTIONS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Ultraviolet Sterilizer must be plugged into a GFCI outlet at all times. Do not operate the lamp without water flow. Overheating may occur to the lamp or sterilizer body. Inspect unit once a month for any damage due to corrosion. Remove from service if damage is found.

Once the Gamma is assembled it is strongly recommended that you water test the unit while observing the operation for a minimum of 30 minutes to ensure that it is running properly and there are no leaks. At no point should you look directly at the un-installed UV lamp while lit as serious eye damage can occur. The clear threaded viewing sections on the UV body will indicate whether the lamp is working or not once the bulb is installed.

DANGER - To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs by yourself; return the appliance to an authorized service facility for service or discard the appliance:

1. If electrical components of the sterilizer get wet, unplug the appliance immediately.
2. Carefully examine the sterilizer after installation. It should not be plugged in if there is water on parts not intended to be wet.
3. Do not operate sterilizer if it has a damaged cord or plug, or if it is malfunctioning or damaged in any manner.
4. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the fixture. Then, unplug and examine for presence of water in the receptacle.
5. Close supervision is necessary when any appliance is used by or near children.
6. To avoid injury, do not contact hot parts such as ballast and the like.
7. Always unplug the sterilizer from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
8. Do not use the sterilizer for other than intended use. The use of attachments not recommended or sold by the sterilizer manufacturer may cause an unsafe condition.
9. Do not install or store the sterilizer where it will be exposed to the weather or to temperatures below freezing.
10. Make sure the sterilizer is securely installed before operating it.
11. Read and observe all the important notices on the sterilizer.
12. 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 sterilizer rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.



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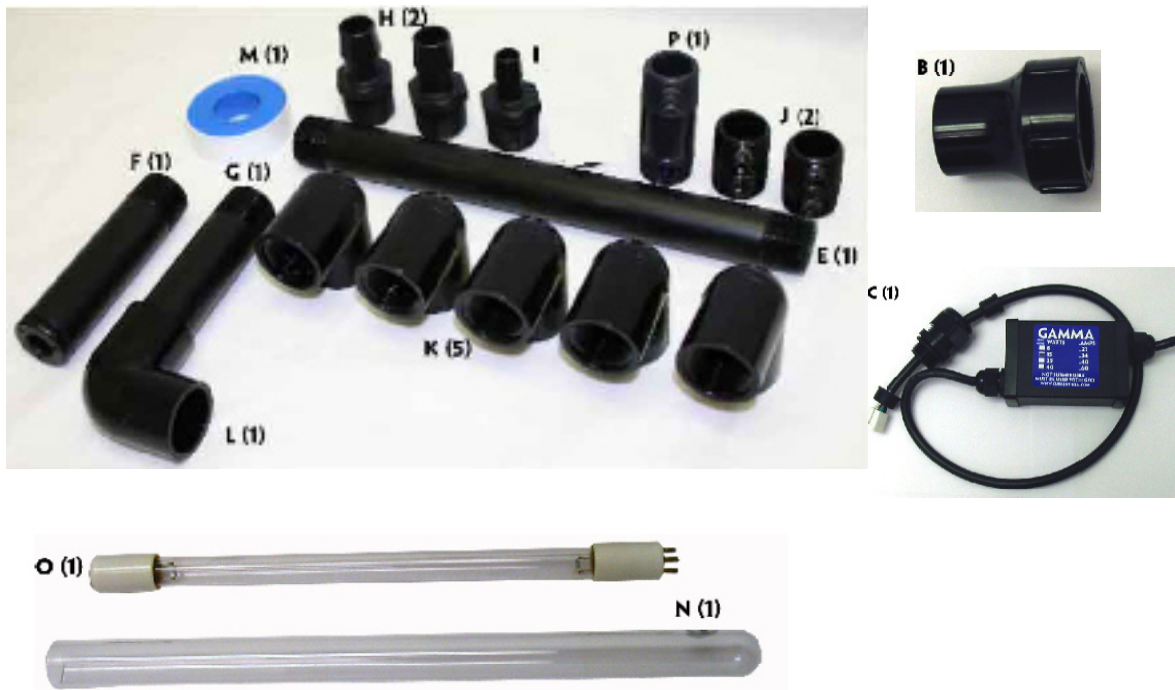
WHAT'S NEXT

SAVE THESE INSTRUCTIONS

INSTALLATION

COMPONENTS

Your Gamma UV can be configured for a number of different plumbing options. The provided roll of Teflon tape will be used to secure the threaded parts together to prevent leaking. Apply Teflon tape (part M) to the threaded male portion of each connection. Apply the Teflon tape so it is double layered over the threads. Note: Teflon tape is not required for connecting the Quartz Locking Nut (Part B) to the main UV body. Please note: Part E is ONLY included in the 8 & 15 watt models.



- B. Quartz locking nut (1)
- C. Lamp socket w/ballast assembly (1)
- E. 10" x $\frac{3}{4}$ " outlet extension (1)
- F. 4" x $\frac{3}{4}$ " Inlet extension w/powerhead adapter (1)
- G. 4" x $\frac{3}{4}$ " Outlet extension (1)
- H. $\frac{3}{4}$ " x $\frac{3}{4}$ " barb fitting (2)

- I. $\frac{3}{4}$ " x $\frac{1}{2}$ " barb fitting (1)
- J. $\frac{3}{4}$ " x $\frac{3}{4}$ " double threaded connector (2)
- K. $\frac{3}{4}$ " x $\frac{3}{4}$ " threaded 90° elbow (5)
- L. $\frac{3}{4}$ " x $\frac{3}{4}$ " slip 90° elbow (1)
- M. Teflon tape (1 roll)
- N. Quartz glass sleeve (1)
- O. T-5 lamp (1)
- P. 2.5" x $\frac{3}{4}$ " outlet extension (1)

INSTALLATION

ASSEMBLY

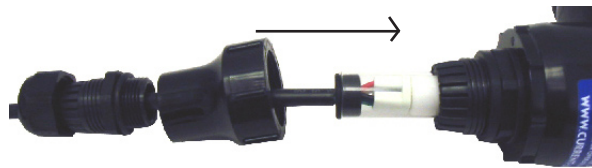
1. Place the Gamma UV in a horizontal position. Connect socket assembly (C) to UV lamp (O) and slide lamp into quartz sleeve (N). Push rubber seal onto quartz sleeve, sealing the lamp & socket inside the quartz sleeve as shown in the below.



2. Slide sealed quartz sleeve and lamp into the main UV body as shown in STEP A below. Ensure that the sleeve is kept centered while sliding it into the body. The rounded end of the sleeve should slide into a retaining ring located inside the main body at the opposite end of the UV - ensuring the sleeve always remains centered within the body. Hand-tighten the quartz locking nut (Part B). Do not tighten the remaining compression fitting (See STEP B) - you must water test the unit first before making any electrical connection. If the quartz tube is not installed correctly, water may leak.

STEP A

Slide lamp into quartz sleeve and slide sleeve into UV body. Seal sleeve with rubber seal



STEP B

Hand tighten quartz locking nut and water test for 30 minutes for leaks.



STEP C

After water test, hand tighten socket compression fitting.



3. Once your Gamma UV has been assembled to your specific configuration (see alternate plumbing diagrams) you can connect the water pump to the UV. The Gamma comes with two types of connections for the inlet, an extension w/powerhead adapter (Part F) and two sizes of barb connections (Parts H & I) for attaching vinyl tubing. These will be attached to the threaded 90° fitting coming off of the top of the sterilizer body using Teflon tape at all connections. The powerhead adapter will accept small submersible powerheads with an outlet size of 1/2" (outside dimension).



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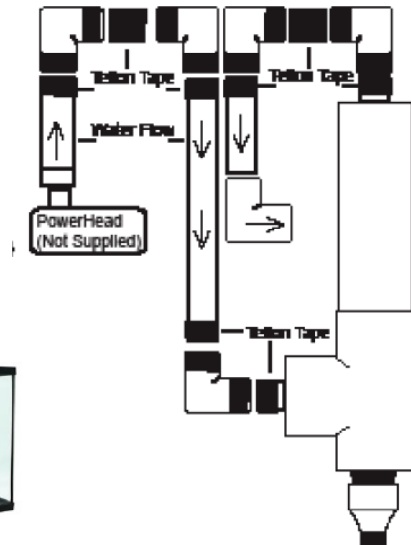
WHAT'S NEXT

ALTERNATE PLUMBING DIAGRAMS

- The Gamma comes with different outlet configurations. The $\frac{3}{4}$ " barbed fitting for connection to vinyl tubing (part D), and a 4" outlet extension pipe (part G) that can be attached to the 90° slip elbow (part L) for directional water flow back into the aquarium (no Teflon tape needed).

Typical Hang-On Style Configuration for 8 & 15 watt Units

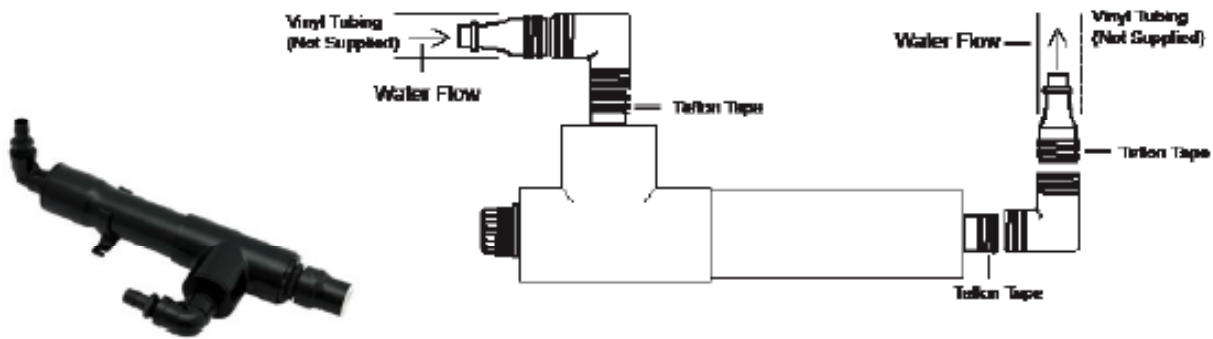
- B. Quartz locking nut (1)
- C. Lamp socket w/ballast assembly (1)
- D. Stabilizing bracket (1)
- E. 10" x $\frac{3}{4}$ " outlet extension (1)
- F. 4" x $\frac{3}{4}$ " Inlet extension w/powerhead adapter (1)
- G. 4" x $\frac{3}{4}$ " Outlet extension (1)
- H. $\frac{3}{4}$ " x $\frac{3}{4}$ " barb fitting (2)
- I. $\frac{3}{4}$ " x $\frac{1}{2}$ " barb fitting (1)
- J. $\frac{3}{4}$ " x $\frac{3}{4}$ " double threaded connector (2)
- K. $\frac{3}{4}$ " x $\frac{3}{4}$ " threaded 90° elbow (5)
- L. $\frac{3}{4}$ " x $\frac{3}{4}$ " slip 90° elbow (1)
- M. Teflon tape (1 roll)
- N. Quartz glass sleeve (1)
- O. T-5 lamp (1)
- P. 2.5" x $\frac{3}{4}$ " outlet extension (1)



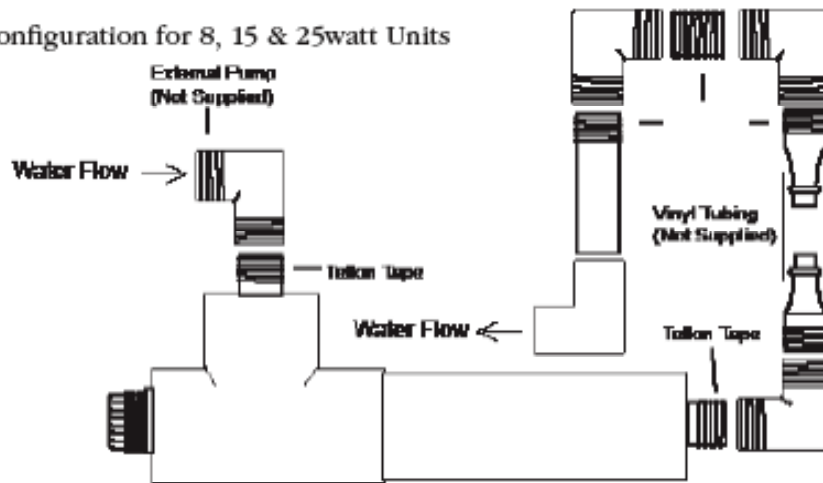
- Once the Gamma has been assembled, place the unit into its configured position on your system. If hanging the unit on the tank or sump, the stabilizing bracket can be clipped onto the main body of the sterilizer and attached with the double sided tape to keep the unit from sliding side to side.
- Turn the pump supplying water to the sterilizer on. Check all connections on the unit for leaks and monitor for at least 30 minutes. If leaks occur it may be necessary to tighten or add more Teflon tape to the fitting.
- Once you have determined that your Gamma UV is leak-free, hand tighten the socket cord to the quartz locking nut as shown on STEP C (page 4.) You only need to hand tighten this and all connections on your Gamma UV.
- Plug the ballast into an 120V AC outlet. You will see a faint glow coming from the clear threaded fittings (it may be necessary to wait for up to 30 seconds for the lamp to initially ignite). If you don't see a glow, make sure that the lamp is firmly seated into the socket. If it still does not work, please contact your dealer.

ALTERNATE INSTALLATIONS

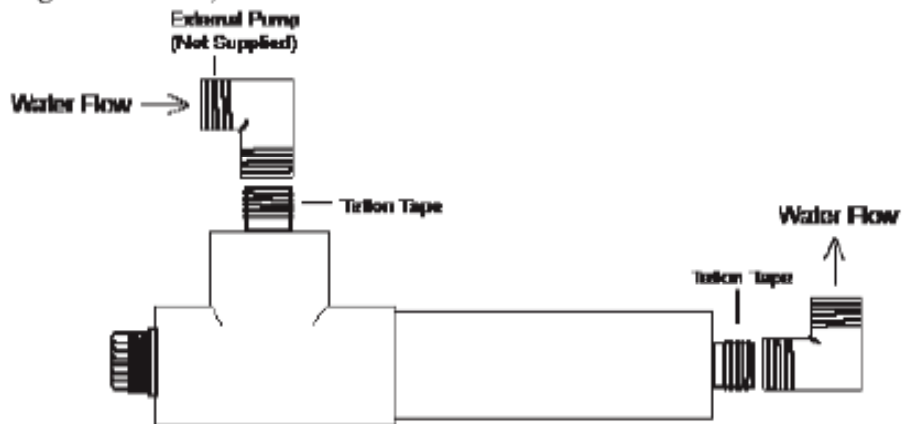
Typical In-Line Configuration for 8, 15 & 25watt Units



Alternate In-Line Configuration for 8, 15 & 25watt Units



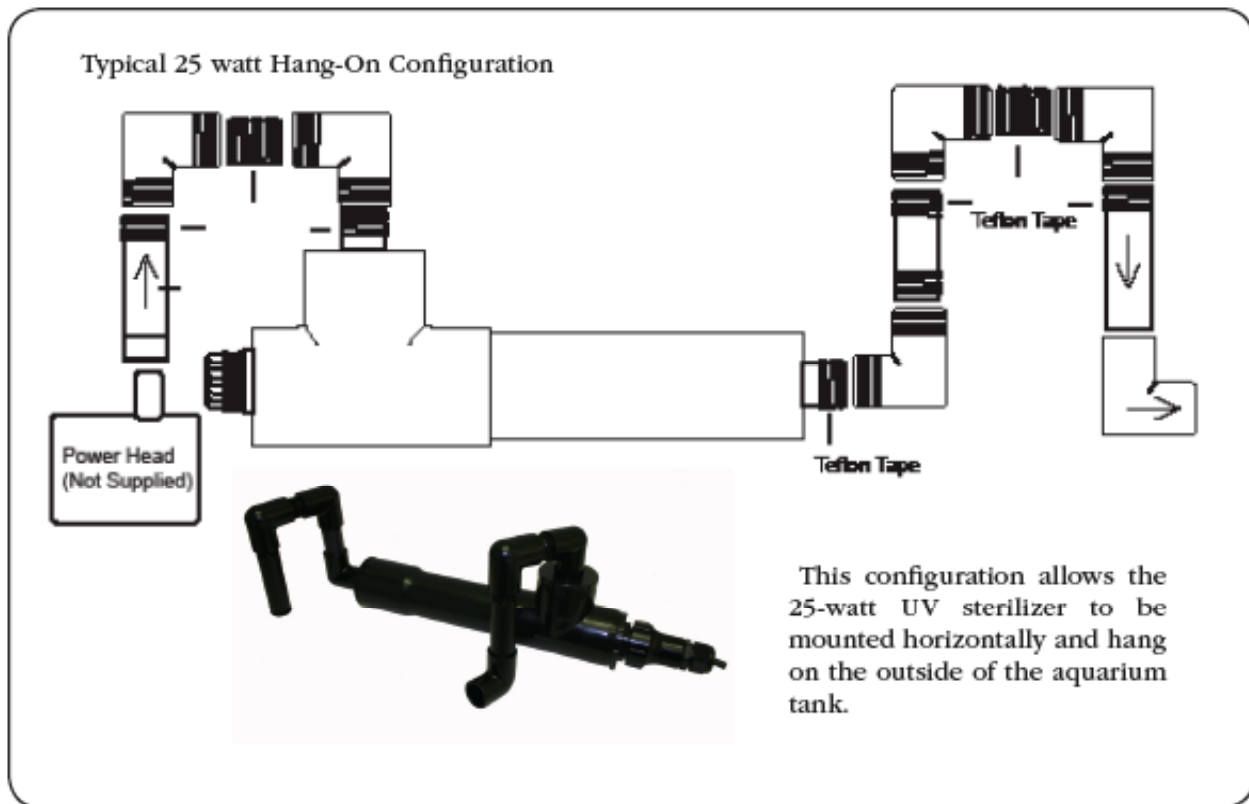
Alternate In-Line Configuration for 8, 15 & 25watt Units



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WHAT'S NEXT

ALTERNATE INSTALLATIONS



MAINTENANCE

Although the Gamma UV requires little maintenance, there are a few suggestions that will ensure the highest sterilization efficiency. When carrying out any maintenance, the unit must be disconnected from the power supply.

The quartz glass used in the Gamma allows the highest transmission in the industry. This light transmission can be affected by calcium and other mineral deposits on the sleeve. It is recommended that the sleeve be removed every 6 months and soaked in vinegar or any calcium/hard water stain remover to remove these deposits. While soaking the quartz sleeve, it is also recommended that you circulate fresh water through the sterilizer to remove any debris. Rinse well in a sink or with a hose and allow the quartz sleeve to dry before re-installing into the Gamma UV body. Pump maintenance can also be performed at this time.

The T-5 lamp in the UV should be replaced every 9-10 months for maximum efficiency. Replacing the lamp with Current USA brand germicidal lamp ensures the highest performance.

WARRANTY

CURRENT USA, INC. ONE-YEAR LIMITED WARRANTY

Current USA, Inc. warrants this product against defects in materials and workmanship for a period of ONE (1) YEAR from the date of original retail purchase. Light Bulbs carry a 3 month warranty.

Note: Current-USA, Inc. One-Year Limited Warranty does not cover damage caused by the following: Improper installation, saltwater corrosion, and electrical surges.

If you discover a defect, Current USA, Inc. will, at its option, repair or replace the product at no charge to you, provided you return it during the warranty period. It is required that you present this warranty card and a copy of the bill of sale as proof of original purchase date, in the event the product needs repairs, within the warranty period. Please see your dealer for return options. This warranty applies only to products by or for Current USA, Inc. that can be identified by trade name, or logo affixed to them. Current-USA, Inc. does not warrant any products that are not Current-USA, Inc. products. This warranty does not apply if the product has been damaged by accident, abuse, misuse or misapplication or if the product has been modified without the written permission of Current-USA, Inc.; or if any Current-USA, Inc. logos have been removed or defaced.

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