

Instruction Manual

Ultraviolet Water Disinfection System

Name: 304 Stainless Steel Ultraviolet Water Disinfection System

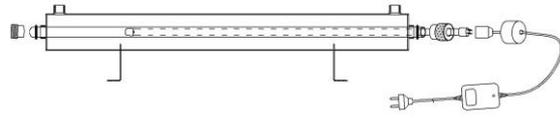
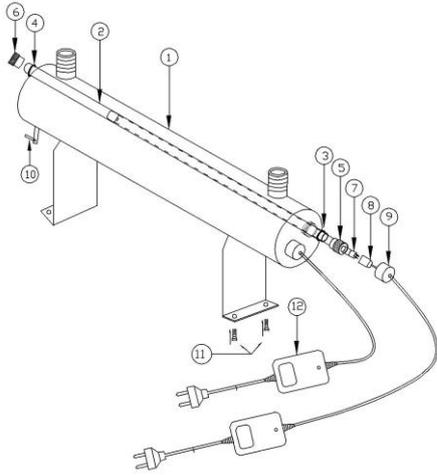
Applications: Drinking water, food processing, medical and industrial etc.

Function: Disinfect bacteria, viruses, molds and algae in water.

Design for: UV 55W, UV 110W, UV 165W, UV 220W, UV 440;

Consumed Power: 21W-864W

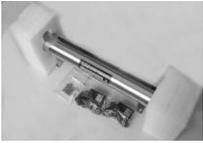
Input: 110V or 220V 50/60Hz



- .1 Reactor Chamber (304SS)
- .2 Quartz Tube
- .3 O-ring
- .4 O-ring
- .5 Open End Nut
- .6 Closed End Nut
- .7 UV Lamp
- .8 4-pin Electrical Socket
- .9 Cover Cap
- .10 Draw-off Valve
- .11 Anchoring

System Installation

Step 1: Open package to check all components inside Reactor Chamber, UV Lamp, Quartz Tube, O-ring Electronic Ballast.



Step 4: Install O-ring onto the open end of Quartz Tube (12mm from the edge).



Step 8: Hand-screw Open End Nut on the Reactor Chamber (open end of Quartz Tube). To protect the O-ring, do not over tighten.



Step 11: Install the Cover Cap and hand-tighten onto Open End Nut.



Step 2: Make sure that the Quartz Tube and UV Lamp are clean before installation (clean with alcohol or mild detergent). Wear soft non-abrasive gloves to keep any finger marks away from them.

Step 3: Remove both Open and Closed End Nut from Reactor Chamber.



Closed End Open End

Step 5: Insert the Quartz Tube into the Reactor Chamber.



Step 6: Install O-ring onto the closed end of Quartz Tube.



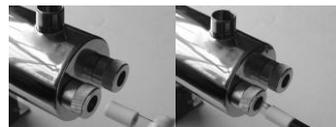
Step 9: Connect 4-pin Electrical Socket with UV Lamp pins tightly.



Step 7: Hand-screw Closed End Nut on the Reactor Chamber (closed end of Quartz Tube). To protect the O-ring, do not over tighten.



Step 10: Carefully insert the UV Lamp into the Quartz Tube through Open End Nut.



Step 12: Repeat to install other lamps to the Reactor Chamber.

Step 13: Select a readily accessible and well lit location to fix the system. The system should always be located closest to the point of use and can either be installed horizontally or vertically.

Step 14: When all plumbing connections are finished, slowly turn on the water supply and check for leaks.

Step 15: Allow the water to run for a few minutes to clear any air or dust that may be in the Reactor Chamber.

Step 16: Connect the power for starting up.

System Operation

a. Water Quality Guidelines

The Ultraviolet Disinfection System is intended for the use with visually clear water, not colored, cloudy or turbid.

- ◆ Ambient Water Temperature: 2-45°C
- ◆ Iron: <0.3ppm (0.3mg/l)
- ◆ Hardness: <7gpg (120mg/l)
- ◆ Turbidity: <1NTU
- ◆ Manganese: 0.05ppm (0.05mg/l)
- ◆ UV Transmittance: >75%

b. Recheck the installation before plug the sterilizer into power.

c. Do not proceed to install the equipment when UV Lamp or Sleeve Tube is broken, buy one again and continue.

d. Ultraviolet Disinfection System is designed for continuous operation and frequent switching will reduce Ultraviolet radiation and service life.

e. If this unit falls into the water, turn main power off and then retrieve it. Do not attempt to use this sterilizer if it has been submerged.

f. Do not operate this unit if it has a damaged cord or plug, if it is malfunctioning or if it has been dropped or been damaged in any manner.

g. The UV system should be installed after the filter on the return line.

h. Always disconnect the water supply and completely drain the water purifier if it will be subjected to temperatures below freezing for extended periods of time.

Important Safeguards



UV light is not visible to human eye, but harmful to eyes and skin. Never look directly at the light tube while device is in operation. Do not remove the UV Lamp from the Reactor Chamber when applying electrical power. Wear SAFETY GOGGLES if you need to look necessary.



Basic safety precautions should always be followed to reduce the risk of fire, electric shock. Make sure the leakage protection switch is installed before use.



Please do not touch the UV lamp directly in case of burning. A pair of gloves would be better when taking off it.

System Maintenance

a. Testing monthly or before each use.

b. Lamp replacement is recommended every 8000 hours of operation. After 8000 hours, the lamp may still light, but the UV intensity has diminished.

c. Cleaning of the quartz sleeve once 3-6 months with alcohol or a mild detergent.

Typical Installation



Note: To save the energy, turn off the power and water supply if you do not use the equipment for a long time.