

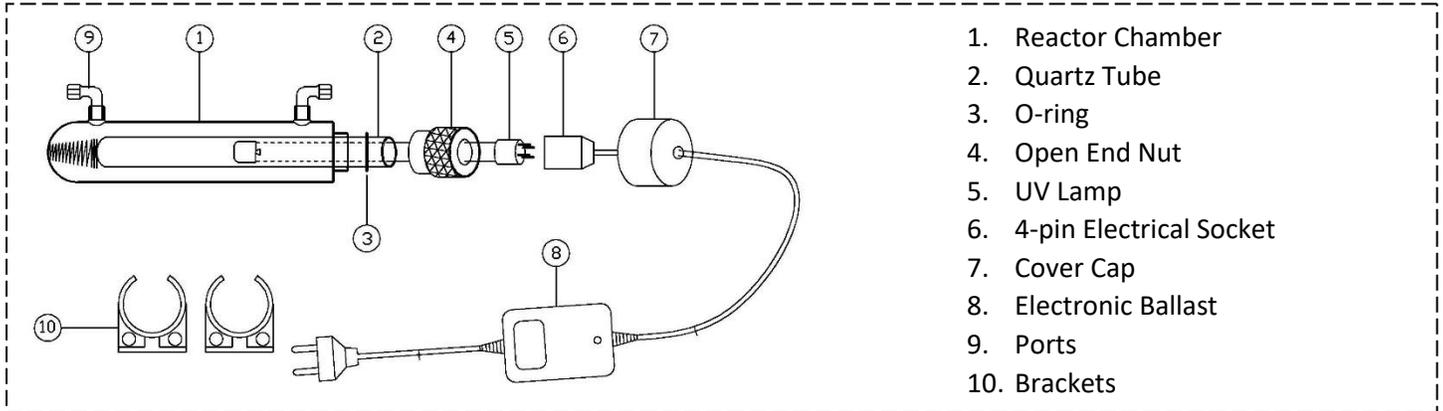
## Ultraviolet Steriliser System Instruction Manual

**Name:** 304 Stainless Steel Ultraviolet Water Disinfection System.

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

**Function:** Disinfect bacteria, viruses, mould and algae in the water.

**Input:** 220V 50/60Hz.



**Before Installation – Please read instructions thoroughly before starting installation. Turn off water supply. It is recommended a pre-filter unit is installed before the UV system at the point of entry on the property.**

Open box and ensure all components pictured above are present. Check and ensure Quartz tube and UV lamp are clean. To clean, use either alcohol or a mild detergent and wear soft non-abrasive gloves to avoid finger prints. Finger prints can cause a shorter life span of the UV lamp.

### System Installation

**Step 1.** Remove End Nut from Reactor Chamber.



**Step 2.** Install O-ring onto the open end of Quartz tube (12mm from the edge).



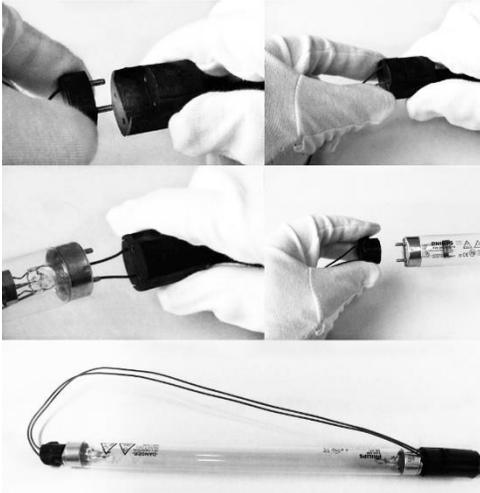
**Step 3.** Insert the Quartz tube into the Reactor Chamber.



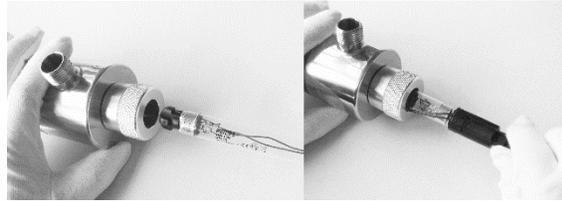
**Step 4.** Hand-screw End Nut on the Reactor Chamber. Do not over tighten.



**Step 5.** Connect 2-pin electrical socket to Philips UV Lamp.



**Step 6.** Carefully insert UV Lamp into Quartz Tube through End Nut.



**Step 7.** Install Cover Tap and hand-tighten onto End Nut.



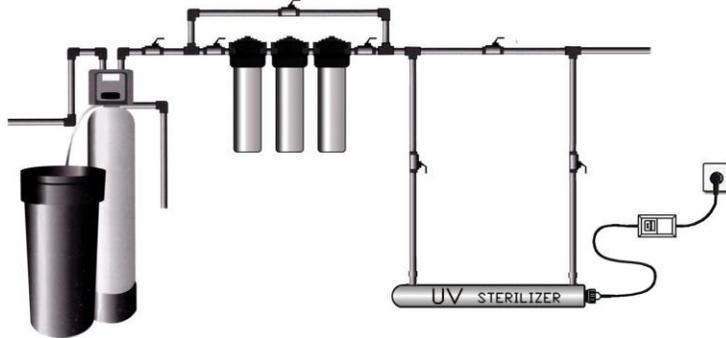
**Step 8.** Select a readily accessible and well-lit location to install UV system. System should be installed close to the point of use and can either be installed horizontally or vertically.

**Step 9.** When all plumbing connections are completed, slowly turn on water supply and check for leaks.

**Step 10.** Allow water to run for several minutes to clear any air or dust that may be in the Reactor Chamber.

**Step 11.** Connect to power supply.

## Typical Installation Set Up



**Note:** To save energy, turn off the power and water supply if the system is not in use for long periods of time only.

## System Operation

### a. Water Quality Guidelines

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

- 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.** Re-check the installation before connecting the steriliser to a power supply.

**c.** Do not proceed with installation if UV Lamp or Quartz tube is broken.

**d.** Finerfilters UV systems are designed for continuous operation, turning the system off frequently will reduce ultraviolet radiation and life span.

**e.** If the unit falls into water, turn off power supply before retrieving it. Do not use UV system if it has been submerged.

**f.** Do not use system if cord or plug to power supply is damaged.

**g.** It is recommended a pre-filter unit is installed before the UV system, at the point of entry on the property.

**h.** If system is subjected to temperatures below freezing for extended periods of time, disconnect from water supply and drain system.

## Important

- a.  UV light is not visible to the human eye, but is harmful to the eyes and skin. **Never** look directly at the light tube while the unit is in operation. **Do not** remove the UV Lamp from the Reactor Chamber when connected to electrical power. Wear SAFETY GOGGLES if you need to examine.
- b.  Basic safety precautions should always be followed to reduce the risk of fire and electric shock.

## System Maintenance

- a. Test monthly or before each use.
- b. Lamp replacement is recommended every 8000 hours of operation or every 6 months.
- c. It is recommended to clean the quartz sleeve once every 3-6 months with alcohol or a mild detergent.