



Clean Water Made Easy

WonderLight UV Sterilizer Installation Guide

Thank you for purchasing a Clean Water System! With proper installation and a little routine maintenance your UV sterilizer will last for many years.



Questions?

Call us toll-free: 1-888-600-5426 or 1-831-462-8500

Email us: support@cleanwaterstore.com

See more information on our website: www.cleanwaterstore.com/resources

Pre-Installation

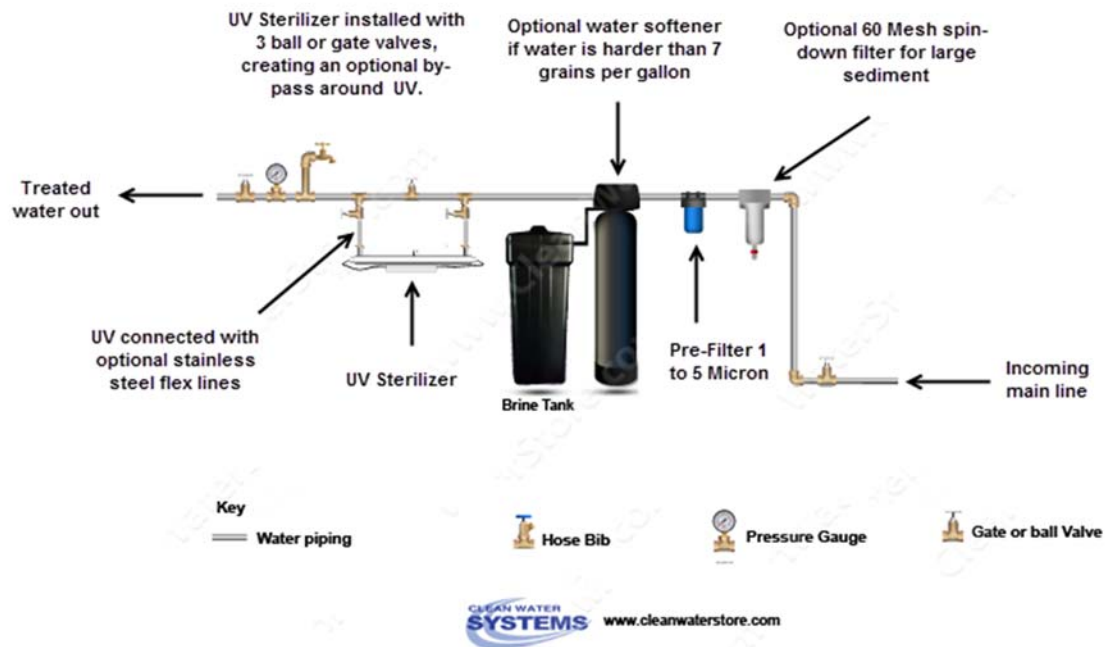
1. Note that for UV to be effective the water should be low:
 - a. Less than 7 grains per gallon of hardness, or less than 120 PPM)
 - b. Free of color and crystal clear.
 - c. Iron should be less than 0.3 mg/L.
 - d. Manganese should be less than 0.05 mg/L
 - e. pH range should be 6.5 to 9.5
2. If you are going to be turning off the water to the house and you have an electric water heater, shut off the power to the water heater before beginning installation in case water heater is accidentally drained.
3. Pick a suitable location for your UV Sterilizer. It is best to mount on a wall, where you can be sure to remove one end of the UV with enough space to completely remove and install the UV lamp (bulb). Choose a location where it won't be exposed to freezing temperatures. A minimum of 10 PSI is required. Maximum pressure is 100 PSI.
4. Get all of your plumbing parts together before beginning installation. Installation typically takes 1 to 4 hours. Review your packing list and make sure you have received all the parts before beginning installation.

Best Practices for Piping & Drain Installation

1. See typical installation on page 2, Figure 1
2. Install UV with stainless steel flexible lines, or use a pipe union so UV can be easily removed later if needed.
3. If you will be using copper piping, do not sweat the copper pipe directly on the UV.
4. If you are going to be using PVC pipe, do not connect PVC fittings direct to UV sterilizer, as the UV rays can degrade the PVC pipe. Use a stainless steel line to isolate the PVC from the UV sterilizer is the best practice.
5. Install a series of 3 ball valves to create a by-pass around the UV as shown in Figure 1 if desired.
6. Install a 5 micron pre-filter prior to UV sterilizer (optional) to remove very fine particles that might block the transmission of UV rays into the water.

Fig 1

Typical Ultraviolet Sterilizer Flow Diagram



Installation:

1. Install UV sterilizer in piping.
2. Add ½ to 1 cup of bleach to pre-filter to UV, or shock well or add directly to piping if possible.
3. Flush piping in home after UV with chlorinated water to sanitize pipes in the home.
4. For badly contaminated piping or piping with sediment or scale, this procedure may need to be repeated to kill all bacteria after UV upon start-up.
5. Turn on UV lamp and note GREEN light on ballast. This means the UV lamp ('lamp' is what the UV light bulb is often referred to) is operating normal, and water flowing through UV is sterilized.

WonderLight UV Sterilizer Installation Guide

6. If ballast RED light is lit, this means the lamp is not operating.
7. NOTE: IF LAMP IS BURNED OUT, ALARM WILL SOUND AND RED LIGHT WILL BE LIT ON THE BALLAST.

Maintenance:

Change UV lamp and clean quartz sleeve with a damp cloth once every 12 months.

When changing UV lamp, we recommend the household piping is sanitized with chlorine or hydrogen peroxide.