

Private Drinking Water Standard for Ultra Violet (UV) Light Disinfection System

Chautauqua County Environmental Health Division (716) 753-4481

This system is intended for use in private properties where raw water does not meet bacteriological quality standards and for water supplies requiring particle filtration. Following system installation, a passing water sample is required.

NOTE TO INSTALLER: You must certify that ALL steps were completed by placing a check mark in each box, signing this form, and returning it to the CCHD - Environmental Health Division office or inspector. A copy of this form must be included with the maintenance instructions and/or manufacturers' literature.

☐ **Water Quality** – The water must meet the following parameters or the UV system will not disinfect properly. Use a certified lab or water treatment professional to test the water **before** you purchase a UV system. Results must be certified in writing by the tester and attached to this form. Pre-treatment such as a water softener is usually required.

Parameter	Limit (reading must be \leq listed value)
Dissolved Iron	0.3 mg/L
Dissolved Manganese	0.05 mg/L
Hardness (calcium)	120 mg/L
Hydrogen sulfide	Non-detectable
Turbidity	1 NTU (color parameter has been removed)
Suspended Solids	total suspended solids 10 mg/L
pH	6.5 to 9.5

☐ **Raw Water Tap** must be present prior to treatment.

☐ **5 Micron Filter** is required to ensure water clarity.

☐ **UV Light must** be NSF or UL approved for use with drinking water. Must be NSF/ANSI Standard 55 Class A.

☐ **UV Light must** be sized to pump capacity, or flow restriction provided.

☐ **UV Light must** have automatic, audible alarm and indicator lights, or intensity meter to monitor bulb output.

☐ **UV Light must** have a quartz sleeve that is easily or automatically cleaned.

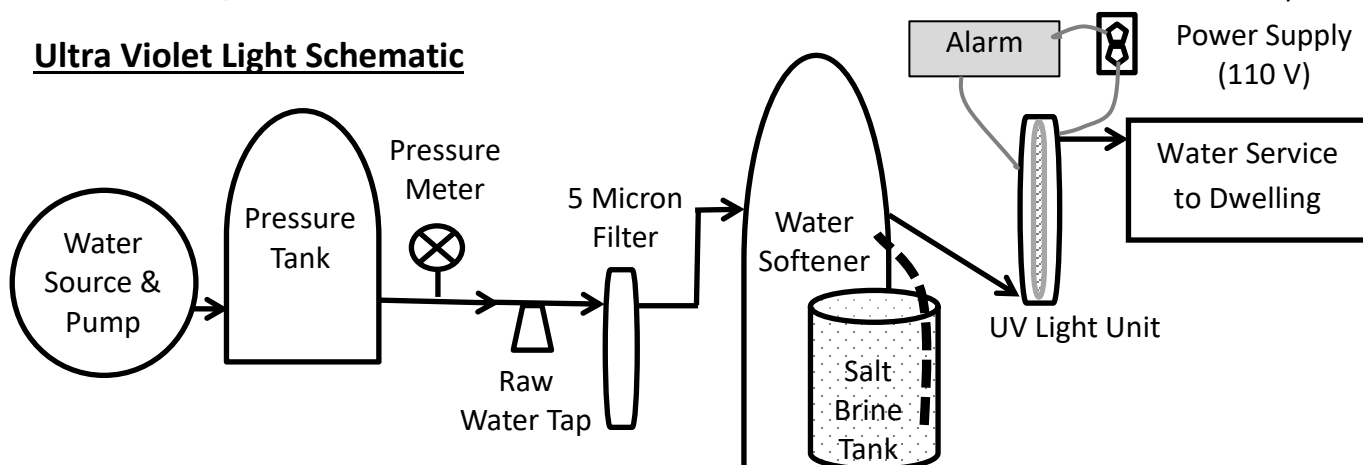
☐ **Disinfect the plumbing** with chlorine after the light is installed.

☐ **Spare Bulb** must be onsite and stored in a cool, dry location.

☐ **Maintenance Instructions and/or Manufacturers' Literature** must be available on site for the buyer.

NOTE TO OWNER: UV units must be cleaned periodically and bulbs replaced following manufacturer recommendations. We recommend the water be tested for bacteria at least once per year to check the effectiveness of the system. For seasonal homes, we recommend the water be tested for bacteria as soon as the water is turned on each year.

Ultra Violet Light Schematic



Address of Installation

Date of Installation

Installed By (Company)

Name of Installer