

# CHAUTAUQUA COUNTY HEALTH DEPARTMENT PRIVATE DRINKING WATER STANDARD FOR ULTRA VIOLET DISINFECTION

**This system is intended for use in private homes whose water does not meet bacteriological quality standards.**

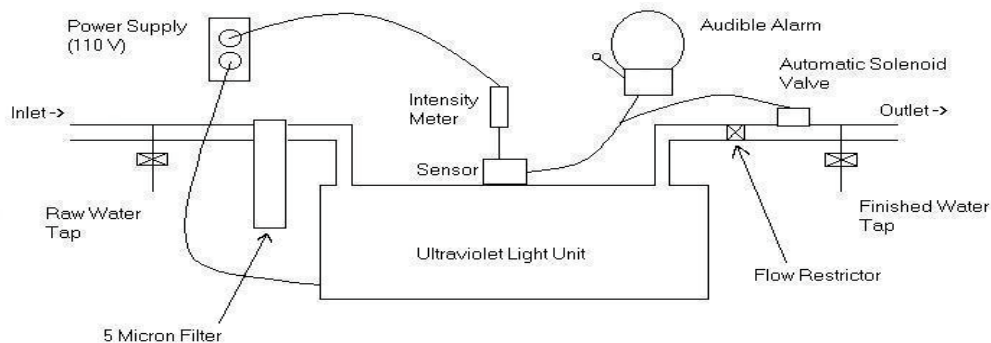
**Note to installer: you must certify that ALL steps below have been completed by placing a check mark in each box, signing this form and returning it to the Chautauqua County Health Department.**

1. Water Quality – In order to disinfect with UV light the water must meet the following quality criteria or the system will not disinfect properly. Use a certified lab to have the water tested for the following parameters **before** you purchase a UV system. Results must be attached to this form.

Parameter	Limit
Iron	0.3 mg/l
Manganese	0.05 mg/l
Hardness (calcium)	300 mg/l
Hydrogen sulfide	1 mg/l
Turbidity	1 NTU
Color	15 color units
Suspended solids	10 mg/l

2. UV light:
- a.) Must be NSF or UL approved for use with drinking water.
  - b.) Must be sized to pump capacity, or flow restriction provided
  - c.) Must have automatic shut off valve in case of bulb failure or power outage.
  - d.) Must have automatic, audible alarm, indicator lights, or intensity meter to monitor bulb output.
  - e.) Quartz sleeve must be easily or automatically cleaned.
3. A spare bulb must be kept on site in a cool dry place.
4. The unit must be cleaned and the bulb replaced following manufacturers recommendations, typically once per year.
5. Disinfect the plumbing with chlorine after the installation of the light.
6. Test water for bacteria after the system has been installed and all of the chlorine has been flushed from the plumbing.
7. We recommend that you have your water tested for bacteria at least once a year to check the effectiveness of your system.
8. If it is a seasonal home the system must be disinfected with chlorine at the beginning of each season.
9. Homeowner must be provided with all manufacturers' literature.

### UV light Disinfection Schematic



UV system Installed by: \_\_\_\_\_  
Company

\_\_\_\_\_  
Name of installer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone #