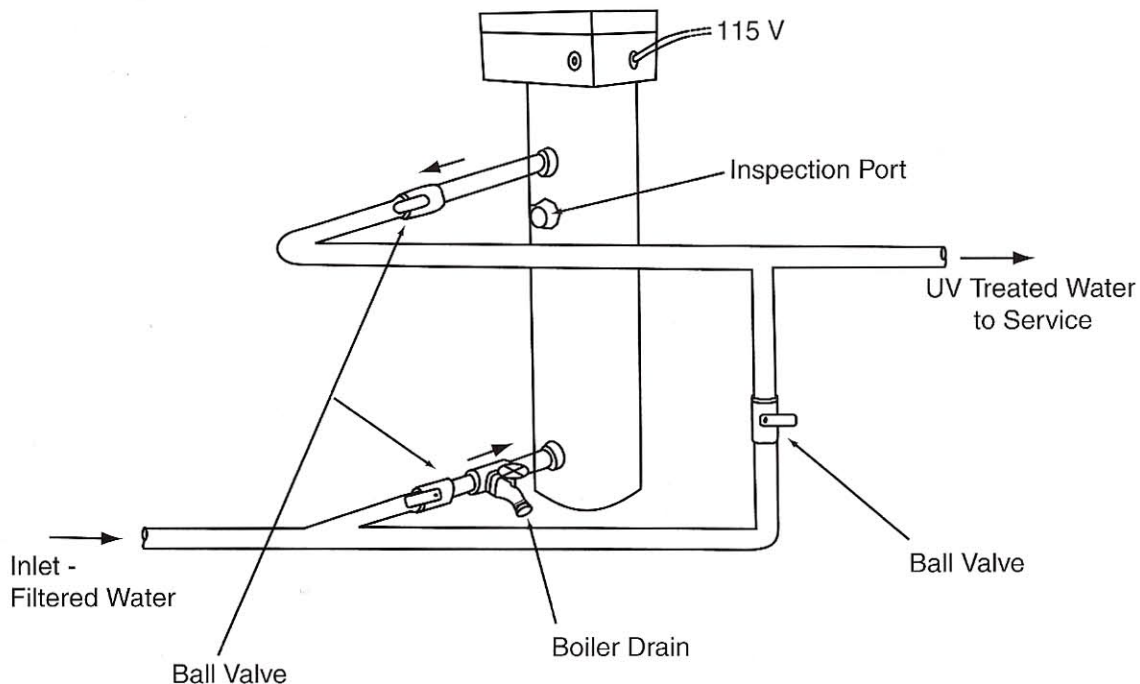


The following information is not intended to replace attending technical training programs or reading of installation instructions. It should be viewed as a general discussion about the product. Its application, limitations and key factors to remember before purchase.

Purpose and Capabilities: Ultra Violet systems are highly specialized water treatment devices that disinfect water. Influent water passes through the cylindrical, stainless steel chamber where a certain wavelength of light destroys or deactivates many bacteria and viruses. Each unit has a built-in flow control so that proper contact time can be maintained to insure high disinfection rates.

Limitations: A U/V system must receive water that is pretreated for best results. Iron, manganese, hydrogen sulfide, turbidity and hardness should be reduced to minimum levels. They are not designed to kill forms of iron/manganese/sulfur bacteria nor cysts like giardia lamblia. As a matter of fact, tannins and slime producing bacteria (iron bacteria) coat the quartz tube and reduce light penetration. See specifications sheet for requirements and limitations.

Typical Ultra Violet Installation



Water Testing: Always test the raw water supply for at least the following: 1) hardness; 2) iron; 3) manganese; 4) pH; 5) tannins; 6) hydrogen sulfide (if rotten egg odor is present); 7) chlorine (if on treated water supply); 8) iron/ manganese/ sulfur bacteria; and 9) coliform and other organisms. Consult specification sheet to check for limitations.

Installation: U/V systems are typically installed at the point-of-entry in a home or business where all water can be treated. It is strongly advisable to install a drain on the lower section of the plumbing for easy draining during cleaning. Make certain that it is connected to an uninterrupted power supply!

Programming The System: There is nothing to program on a U/V system. Simply connect to source plumbing and power supply.

Regular Maintenance: The U/V lamp must be replaced annually even if it is still lit and the entire unit cleaned about every six months to prevent build-up on the quartz tube. It is also advisable to use a strong chlorine solution in the stainless steel housing each time the system is cleaned. If the unit has a failsafe feature, check the solenoid for proper operation. Complete details on preventive maintenance are included with each set of installation instructions.