Clark County Combined Health District
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Your well has an Ultraviolet Light (UV) continuous disinfection system installed to make your water safe…

What you need to do to KEEP your water safe

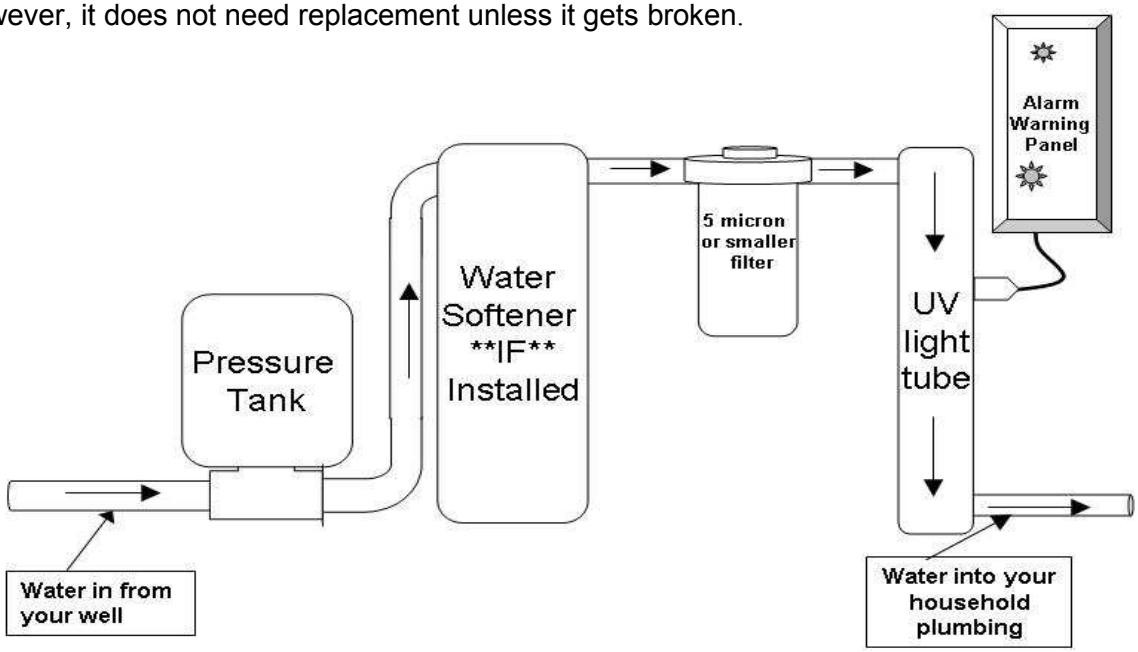
Ultraviolet light, or UV, disinfects water by striking and killing microorganisms with electromagnetic radiation. The UV light source is enclosed in a transparent protective sleeve and mounted so water can pass through a flow chamber.

The UV system must meet NSF Standard 55 Class "A". This means the unit meets the minimum UV light dosage and is equipped with warning devices and/or automatic shutoffs when the unit fails. Automatic shutoff is the preferred method to avoid consuming untreated water.

The water must be clear for the UV treatment to be effective so pre-filtration such as a water softener and/or iron filter is required when total suspended solids are greater than 5 pm. Since **dissolved iron and hardness can cause build-up on the quartz sleeve,** iron levels should be below 0.3 ppm and hardness below 120 ppm. A cyst reduction filter is also required to protect against protozoa such as *giardia* and *Cryptosporidium.*

UV lamps (bulbs) require annual replacement to ensure optimal performance. Just like any other light source, the bulb will slowly diminish over time. Beyond one year, there is no assurance that the UV light emitted from the bulb will provide sufficient disinfection.

Remember, UV light cannot be seen. The bulb may still produce light, but not necessarily UV rays. The quartz sleeve should be cleaned several times per year on the outside only; however, it does not need replacement unless it gets broken.



Consider having a registered private water systems contractor service your continuous disinfection system ***at least*** once a year to help ensure the continued safety of your water. It is also strongly recommended that you test your water annually for bacteria. Contact the Clark County Combined Health District for more information about testing your water.

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