

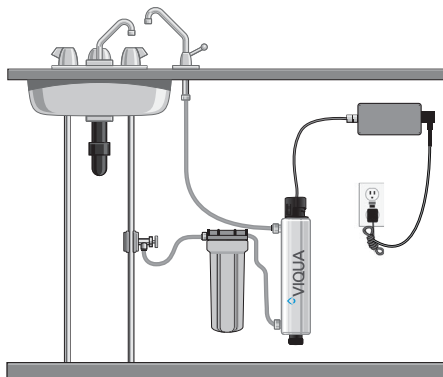


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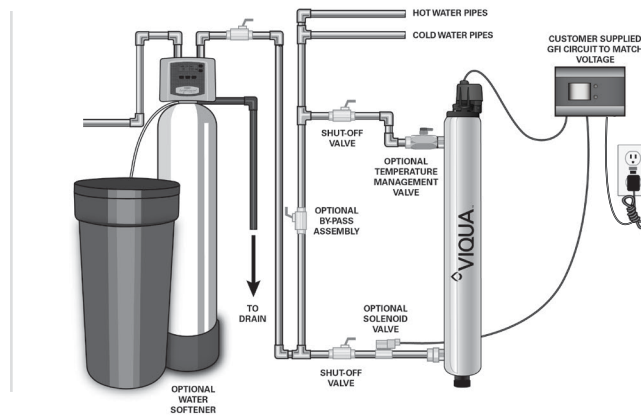
Water Doctors VIQUA Ultraviolet Systems

The quality of drinking water can change with time and become contaminated with harmful bacteria. The Water Doctors family of UV disinfection systems provide a reliable, economical and chemical-free way to safeguard drinking water in any residential application. Water Doctors VIQUA systems have been designed and tested to ensure quality drinking water is at everyone's fingertips.

Regardless of your need, there is a Water Doctors VIQUA system to suit your requirements. We offer VIQUA systems that range in flow rates from just 1 GPM for a single faucet up to 34 GPM for an entire home.



VIQUA SYSTEM UNDER-SINK SETUP



VIQUA WHOLE HOME SYSTEM



VIQUA ULTRAVIOLET
COMPONENT

Features of Water Doctors VIQUA UV Water Disinfection Systems

- Equipped to inactivate chlorine-resistant parasites such as **Cryptosporidium** and **Giardia**, harmful bacteria like **E. coli**, and viruses not visible to the naked eye.
- Specially designed and tested Sterilume™T-EX lamps provide **consistent and reliable** ultraviolet output over the entire life of the lamp (9000 hours) to ensure continuous purification.
- The system is easy to maintain and service.
- Safety-Loc™ connector with interlock that ensures power is disconnected before lamp can be removed, hidden ground wire.
- Built with a **durable stainless steel chamber** to prolong life and eliminate ultraviolet light degradation.
- The power supply has an LED power/lamp "On" indicator.

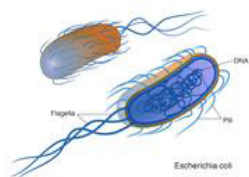


Product Specifications

MODEL	Under-sink (VT1)	Whole Home (D4-Premium)	Larger Homes (VH410)
FLOW RATES (@ 95% UVT)			
US Public Health (16 mJ/cm ²)	2 GPM (7 lpm) (0.4 m ³ /hr)	23 GPM (87 lpm) (5.2 m ³ /hr)	34 GPM (130 lpm) (7.8 m ³ /hr)
VIQUA Standard (30 mJ/cm ²)	1 GPM (4 lpm) (0.25 m ³ /hr)	12 GPM (45 lpm) (2.7 m ³ /hr)	18 GPM (70 lpm) (4.2 m ³ /hr)
NSF/EPA (40 mJ/cm ²)	0.7 GPM (3 lpm) (0.2 m ³ /hr)	9 GPM (34 lpm) (2 m ³ /hr)	14 GPM (54 lpm) (3.3 m ³ /hr)
SPECIFICATIONS			
Dimensions	12 1/2" x 2 1/2" (31.8 cm x 6.5 cm)	20 1/2" x 4" (52 cm x 10 cm)	23 1/2" x 3 1/2" (59.6 cm x 8.9 cm)
Shipping Weight lbs (kg)	4 lbs (1.8 kg)	10 lbs (4.5 kg)	17 lbs (7.7 kg)
Connection Size	3/8"-1/2" COMBO NPT	3/4" MNPT	3/4"-1" MNPT COMBO (/2B - BSP)
Power Consumption	13W	50W	60W

Microbiological Water Contamination

This type of contamination is a major challenge in many parts of the world where water distribution systems are lacking or not in a good state of operation and where water is stored for use in drought conditions. In these situations, the primary concern is to eliminate illness-causing pathogens that may be present in the water, including bacteria, viruses, and parasites. In these same areas of high heat and humidity, reproduction of harmful organisms is often very rapid.

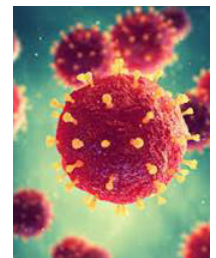


There are three main problem microbes that are often found in private well water sources that can cause illness in humans. These are Giardia, Cryptosporidium, and E. coli. Most people are aware of E. coli, as it's often discussed in media as a food contaminant, but it is also a water contaminant.

E.coli is a type of Coliform bacteria. Coliforms are bacteria that live in the intestinal tracts of animals, and any type of coliforms in the water is an indicator of some kind of fecal contamination of the water. Not all coliforms are dangerous, but the presence of them in a water sample indicates that there is a possibility that some of those coliforms could be e.coli.

Giardia and Cryptosporidium are both organisms that live in the intestinal tracts of animals. As part of their life cycle, both of these organisms are flushed out with feces and form an extremely difficult-to-penetrate cyst to protect them, even in harsh environments. These organisms can persist, even in cold water, for months in the environment until they are ingested and start the cycle over again.

They can be an indication that fecal contamination is in the water, either from flooding events, bad well construction, septic or a myriad of other reasons. Both of these microbes can cause illness, and in children, the elderly, or immune-compromised people, they can be serious illnesses. Because of their protective cyst coatings these organisms are highly resistant to chlorine water treatment.



This system has been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(+5), or arsenate) at concentrations of 0.050 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramines (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section of the Performance Data Sheet for further information.

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