

Industry: Home Uses

VIQUA UV Home Sterilizer



UV Water Purification System

The quality of drinking water can change with time and become contaminated with harmful bacteria. The VIQUA HOME family of compact UV disinfection systems provide a reliable, economical, and chemical-free way to safeguard drinking water in any residential application.

VIQUA's range of products have been designed and tested to ensure quality drinking water is at everyone's finger tips. Regardless of your need, there is a VIQUA system to suit your requirements. VIQUA offers systems that range in flow rates from just 0.4 m³/h for a small home or cottage, up to 8.0 m³/h for a larger home or small business.

GENERAL INFORMATION

Water quality parameters:

- 1. Hardness < 7 grains (120 mg/L)
- 2. Iron < 0.3 mg/L
- 3. Tannins < 0.1 mg/L

*Possibility of manufacture with thread or flange, on request. The disinfection system is designed to be mounted either horizontally or vertically at the point-of-use or point-of-entry depending on the specific flow rate of the unit.

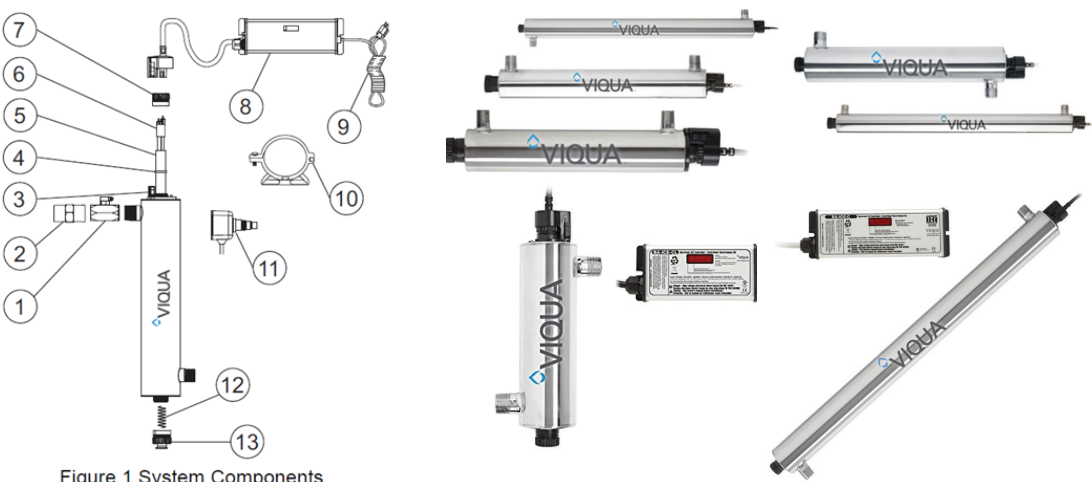


Figure 1 System Components

WORKING CONDITION

- 1. Maximum operating pressure: 8.62 bar
- 2. Influent water temperature: 2-40 °C
- 3. Voltage: 100-240V/ 50-60Hz

UV DOSAGE

Organism	Type	Disease	Dose (mJ/cm²)
Bacillus subtilis spores (B. Subtilis)	Bacteria	—	22
Bacteriophage (Phage)	Virus	—	6.6
Coxsackie virus	Virus	Intestinal infection	6.3
Shigella spores	Bacteria	Bacterial dysentery	4.2
Esterichia coli (E. Coli)	Bacteria	Food poisoning	6.6
Fecal coliform	Bacteria	Intestinal infection	6.6
Hepatitis A virus (Infectious Hepatitis virus)	Virus	Hepatitis of the liver	8
Influenza virus (Flu virus)	Virus	Influenza	6.6
Legionella pneumophila	Bacteria	Legionnaires’ disease	12.3
Salmonella typhi	Bacteria	Typhoid fever	7
Staphylococcus aureus (Staph)	Bacteria	Food poisoning, toxic shock syndrome, etc	6.6
Streptococcus spores (Strep)	Bacteria	Strep Throat	3.8

SPECIFICATIONS

Model	Flow rate (m³/h)	Rated Power (Watt)	No. of tubes (piece)	Lamp life (h)	Chamber material (SS)	UV dosage (mJ/cm²)	Dimensions(mm)			Weight (Kg)
							Chamber	Controller	Inlet / Outlet	
S2Q	0.4	22	1	9000	304SS	40	464x64	211x81x64	1/2"	3
VH150	0.8	32	1	9000	304SS	40	330x89	172x81x64	1"-3/4"	3.6
VH200	1.6	35	1	9000	304SS	40	450x89	172x81x64	1"-3/4"	5.4
VH410/2	3.2	60	1	9000	304SS	40	596x89	172x81x64	1"-3/4"	7.7
VP950	8.0	96	1	9000	304SS	40	1140x89	223x81x64	6/4"	7.7

FEATURES OF VIQUA UV HOME STERILIZER

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™-EX and -HO lamps provide consistent and reliable ultraviolet output over the entire life of the lamp (9000 hours) to ensure continuous purification.
- The system is simple to maintain and service allowing for easy lamp replacement.
- Built with a durable stainless steel chamber to prolong

life and eliminate ultraviolet light degradation.

- Safety-Loc™ connector with interlock that ensures power is disconnected before lamp can be removed.
- The controller visually displays the remaining lamp life and will go into alarm if the lamp fails. Monitored systems are equipped with a UV sensor which provides a continuous readout of UV intensity.
- Monitored systems allow for the installation of an optional solenoid valve which will stop the flow of water through the chamber should the UV performance fall below a safe level.

Item	Description	Part Number	UV Systems
1	Temperature management valve (optional)	440179	Optional
2	Flow restrictor (Only for certified models)	440315-R	VH200-V
		440316-R	VH410-V, VH410M-V
3	Lamp connector base	270276-R	Used on all systems
4	O-ring	410867	Used on all systems
5	Open-ended, GE 214 fused quartz sleeve with fire polished ends	QSO-150	VH150
		QS-001	VH200, VH200-V
		QSO-410	VH410, VH410M, VH410-V, VH410M-V
		QSO-600	VP600, VP600M
		QSO-950	VP950, VP950M
6	Hard glass, coated Sterilume®-HO UV lamps for long, consistent life (9000 hours)	S150RL-HO	VH150
		S200RL-HO	VH200, VH200-V
		S410RL-HO	VH410, VH410M, VH410-V, VH410M-V
		S600RL-HO	VP600, VP600M
		S950RL-HO	VP950, VP950M
7	Retaining Nut	RN-001	Used on all systems
8	Controller (for 100-240V/50-60Hz models only)	BA-ICE-CL	VH150, VH200, VH410, VH200-V, VH410-V
		BA-ICE-C	VP600, VP950
		BA-ICE-CM	VH410M, VH410M-V, VP600M, VP950M
9	IEC replacement power cords for controller (sold separately)	602636	VH150, VH200, VH410, VH410M, VH200-V, VH410-V, VH410M-V, VP600, VP600M, VP950, VP950M (N. America)
		602637	VH150/2, VH200/2, VH410/2, VH410M/2, VH200-V/2, VH410-V/2, VH410M-V/2, VP600/2, VP600M/2, VP950/2, VP950M/2 (EU CEE)
		260012	VH150-2B, VH200/2B, VH410/2B, VH410M/2B, VH200-V/2B, VH410-V/2B, VH410M-V/2B, VP600/2B, VP600M/2B, VP950/2B, VP950M/2B (UK)
		260013	VH150/2A, VH200/2A, VH410/2A, VH410M/2A, VH200-V/2A, VH410-V/2A, VH410M-V/2A, VP600/2A, VP600M/2A, VP950/2A, VP950M/2A (Australia, NZ)
		260019	NO CONNECTOR, 3-WIRE, BARE LEADS
10	Mounting Brackets/Clamp Assembly	410076	Used on all systems
11	UV Sensor	254NM-C1	VH410M, VH410M-V, VP600M, VP950M
12	Spring	SP008	Used on all systems
13	Retaining nut with the plug	RN-001/1	Used on all systems



S P E C T R A

PROFESSIONAL UV SOLUTIONS

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