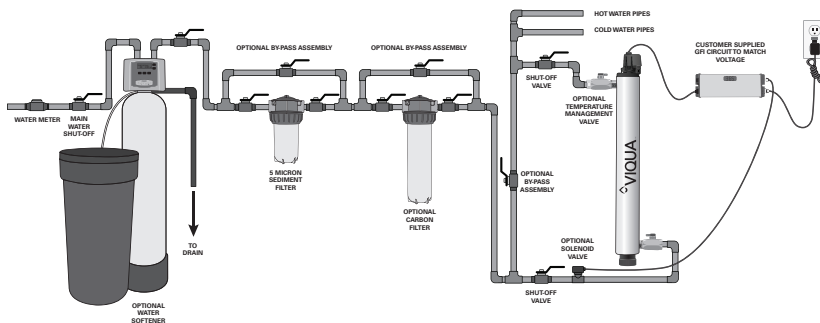


## Ultraviolet Water Systems from VIQUA

The VIQUA **HOME family** of compact UV systems provide a **reliable** and **economical** way to treat drinking water in virtually 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 5 GPM for a small home or cottage, up to 18 GPM for a larger home or small business.



### Features of VIQUA UV water systems

- Specially designed and tested Sterilume™ -HO lamps provide **consistent and reliable** ultraviolet output over the entire life of the lamp (9000 hours) to ensure optimal performance. High output lamps allow for small footprint while providing the same UV performance as a standard output lamp in a longer chamber.
- 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.

# Specifications



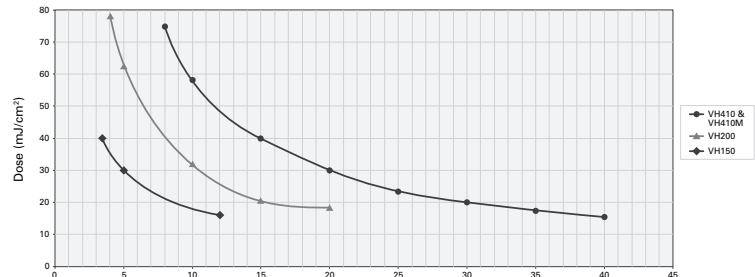
MODEL	VH150	VH200	VH410	VH410M
<b>FLOW RATES (@ 95% UVT)</b>				
US Public Health (16 mJ/cm <sup>2</sup> )	12 GPM (45 lpm) (2.7 m <sup>3</sup> /hr)	16 GPM (60 lpm) (3.6 m <sup>3</sup> /hr)	34 GPM (130 lpm) (7.8 m <sup>3</sup> /hr)	34 GPM (130 lpm) (7.8 m <sup>3</sup> /hr)
VIQUA Standard (30 mJ/cm <sup>2</sup> )	5 GPM (19 lpm) (1.1 m <sup>3</sup> /hr)	9 GPM (34 lpm) (2.0 m <sup>3</sup> /hr)	18 GPM (70 lpm) (4.2 m <sup>3</sup> /hr)	18 GPM (70 lpm) (4.2 m <sup>3</sup> /hr)
NSF/EPA (40 mJ/cm <sup>2</sup> )	3.5 GPM (13 lpm) (0.8 m <sup>3</sup> /hr)	7 GPM (26 lpm) (1.6 m <sup>3</sup> /hr)	14 GPM (54 lpm) (3.3 m <sup>3</sup> /hr)	14 GPM (54 lpm) (3.3 m <sup>3</sup> /hr)
<b>DIMENSIONS</b>				
Chamber	13" x 3.5" (33 cm x 8.9 cm)	17.75" x 3.5" (45 cm x 8.9 cm)	23.5" x 3.5" (59.6 cm x 8.9 cm)	23.5" x 3.5" (59.6 cm x 8.9 cm)
Controller	6.8" x 3.2" x 2.5" (17.2 cm x 8.1 cm x 6.4 cm)	6.8" x 3.2" x 2.5" (17.2 cm x 8.1 cm x 6.4 cm)	6.8" x 3.2" x 2.5" (17.2 cm x 8.1 cm x 6.4 cm)	9.25" x 3.25" x 2.5" (24 cm x 8.1 cm x 6.9 cm)
Inlet/Outlet Port Size	Combo 3/4" FNPT / 1" MNPT	3/4" - 1" MNPT COMBO*	3/4" - 1" MNPT COMBO*	3/4" - 1" MNPT COMBO*
Shipping Weight	8 lbs (3.6 kg)	12 lbs (5.4 kg)	17 lbs (7.7 kg)	17 lbs (7.7 kg)
<b>ELECTRICAL</b>				
Voltage	120-240V / 50/60 Hz	120-240V / 50/60 Hz	120-240V / 50/60 Hz	120-240V / 50/60 Hz
Power Consumption	32 W	35 W	60 W	60 W
Maximum Operating Pressure	125 psi (8.62 bar)	125 psi (8.62 bar)	125 psi (8.62 bar)	125 psi (8.62 bar)
Influent Water Temperature	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)
<b>FEATURES</b>				
Visual "Power On"	YES	YES	YES	YES
Chamber Material	304 SS	304 SS	304 SS	304 SS
Visual Lamp Life Remaining	YES	YES	YES	YES
Audible Lamp Life Failure	YES	YES	YES	YES
Audible Lamp Replacement Reminder	YES	YES	YES	YES
UV Sensor	NO	NO	NO	YES

\* /2B - BSP

## Replacement Parts

<b>S150RL-HO</b> – UV lamp for VH150	<b>QS-001</b> – quartz sleeve for VH200
<b>S200RL-HO</b> – UV lamp for VH200	<b>QSO-410</b> – quartz sleeve for VH410 & VH410M
<b>S410RL-HO</b> – UV lamp for VH410 & VH410M	<b>410867</b> – o-ring for quartz sleeves
<b>QL-150</b> – quartz sleeve, UV lamp combo pack for VH150	<b>RN-001</b> – retaining nut for all systems
<b>QL-200</b> – quartz sleeve, UV lamp combo pack for VH200	<b>RN-001/1</b> – retaining nut with plug for all systems
<b>QL-410</b> – quartz sleeve, UV lamp combo pack for VH410 & VH410M	<b>BA-ICE-CL</b> – electronic ICE controller for VH150, VH200, VH410
<b>QSO-150</b> – quartz sleeve for VH150	<b>BA-ICE-CM</b> – electronic ICE controller for VH410M

**VH150, VH200, VH410, & VH410M DOSE CURVES**



## Water Quality Parameters

**Hardness** < 7 grains (120 mg/L)  
**Iron** < 0.3 mg/L  
**Tannins** < 0.1 mg/L



425 Clair Rd. W, Guelph, Ontario, Canada N1L 1R1  
 t. 1.519.763.1032 • f. 1.519.763.5069 • tf. 1.800.265.7246 (US/CAN)  
 t. +31.73.7470144 (EUR) info@viqua.com • www.viqua.com



# CE Declaration of Conformity

The undersigned, representing the following  
Manufacturer:

**Viqua - a Trojan Technologies Business**  
425 Clair Rd. W.,  
Guelph, Ontario, N1L 1R1  
Canada

and the authorized representative established  
within the Community:

**Trojan Technologies Deutschland GmbH**  
Aschaffenburg Straße 72  
D 63825 Schöllkrippen  
Deutschland

herewith declare that the product;

**Customer PO #:** *ETRAI SRL*  
**VIQUA Order #:** *609804*  
**VIQUA Water UV Treatment System(s):** *VH200*

## **Components within the Systems Listed:**

**Power Supplies:** BA-ICE-CL  
**UV Lamps:** S200RL-HO  
**UV Quartz Sleeves:** QS-001

is in conformity with the essential requirements laid down in council directives:

**2014/35/EU Low Voltage Directive**

**2014/30/EU EMC Directive**

**2011/65/EU RoHS Directive & Amendment (EU) 2015/863**

and with reference to the following harmonized standards and /or other technical specifications:

### **SAFETY -**

EN 60335-2-109:2010 +A1:2018 +A2:2018 – Safety, Part 2-109: Particular Requirements for UV Radiation Water Treatment Appliances

EN 60335-1:2012 +AC:2014 +A11:2014 +A13:2017 +A14:2019 +A1:2019 +A2:2019– Household and Similar Electrical Appliances – Safety- Part 1: General Requirements

EN 62233:2008 +AC2008 – Measurement Methods for EMF

EN 62471:2008 – Photobiological safety of lamps and lamp systems

### **EMC -**

EN 55014-1:2019 – Requirements for Household Appliances, Electric Tools and Similar Apparatus, Part 1: Emissions

EN 55014-2:2015 – Household Appliances, Electric Tools and Similar Apparatus, Part 2: Immunity – Product family standard

EN 61000-3-2:2019 – Voltage Fluctuations and Flicker Emissions

EN 61000-3-3 2013/A1:2019- Immunity to Electrostatic Discharge

**ROHS -**

EN 63000:2018 – Technical documentation for the assessment of EEE products with respect to the restriction of hazardous substances

and is also in conformity with:

**(EC) Directive 94/62/EC & AMD 2018/852/EU Packaging and Packaging Waste** and prohibitions for the 4 stated heavy metals above the thresholds for all product packaging materials.

**(EC) Directive 2008/98/EC Waste Framework** – Requirement to report in the **SCIP Database** Substances of Very High Concern (SVHC) from the REACH (EC) 1907/2006 Regulation Candidate List to communicate articles above the thresholds within all product and packaging material/s;

**(EU) Directive 2012/19/EU WEEE** (Waste Electrical and Electronic Equipment)

**(EU) Directive 2006/66/EC Battery**

**(EC) Regulation 1907/2006 – REACH** (Registration, Evaluation, Authorization and Restriction of Chemicals) Restricted List prohibitions (bans) above the thresholds within all products and packaging materials;

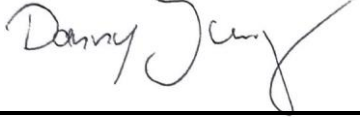
**(EU) 2019/1021 Regulation POP** (Persistent Organic Pollutants) prohibitions (bans) above the thresholds within all product and packaging materials.

This declaration is issued under the sole responsibility of the manufacturer. The Technical File supporting the above is held by VIQUA – TROJAN TECHNOLOGIES at GUELPH ONTARIO CANADA. The indicated product models referenced in this declaration are in conformity with the relevant European Union harmonization legislation.

**Manufacturer Authorized Representative:**

**European Economic Operator:**

**Signature** 



**Full Name** Yinet Gonzalez Gomez

**Danny Jung**

**Position** Quality Specialist

*Director, Sales Europe*

**Date** April 8, 2024