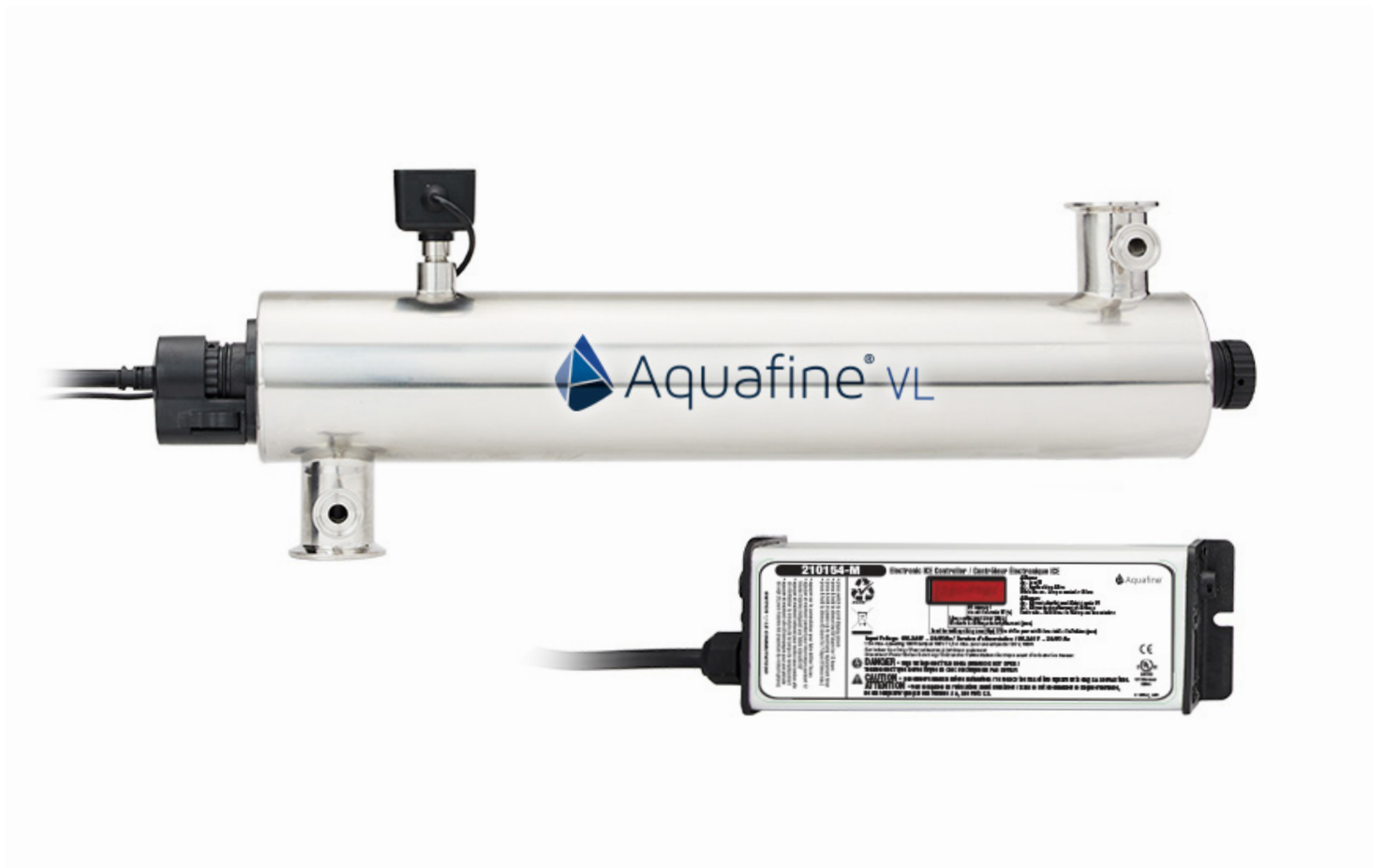


AQUAFINE

# VL™ Series

Compact design and economical UV water treatment for low-flow Industrial applications





## A Robust, Versatile and Cost-effective UV System.

Aquafine's VL Series provides a compact design and economical ultraviolet (UV) water treatment for low-flow applications, such as laboratory and medical facility water, pharmaceutical make-up processes, final electronic component rinsing and recirculation loops.

The Aquafine VL Series is a superior product design over the previous model offering with all of the same core features, with a smaller footprint and more versatile design. The VL base models come standard with many additional options over the prior system offered.

Aquafine VL Series inactivates *Escherichia coli* (*E. coli*) and fecal coliform. Aquafine VL Series is also used to reduce trace chemicals; ozone, chlorine, total organic carbon.

### Features (Base Model)

- Sample ports
- Audible alarm
- Lamp status indicator
- Digital display of lamp days remaining
- High Output lamp technology
- Controller 100V to 240V
- 316L stainless steel treatment chamber
- Auxiliary Output (120 V)

### Options

- NIST UV intensity monitor
- Sanitary Tri-Clamp connection
- Power Cord (NA, EU, AUS/NZ, UK)

### Applications

- TOC Reduction
- Ozone Reduction

# Key Benefits

## Aquafine VL

**Compact footprint for installation flexibility.** Can handle maximum flow capacity in minimal space. Its compact design allows it to be installed in restrictive spaces, thereby lowering installation costs.

**High Output Lamp Technology.** The High Output lamp technology efficiency allows for a more compact UV lamp and chamber, resulting in improved installation flexibility and small footprint – while maintaining the same level UV performance from a sizing perspective.

**Flexible horizontal or vertical installations.** Flexibility with an easily mounted controllers, allows for more installation placement options for the system, especially in tight spaces.

**Quick and easy installation and service.** S-Shaped Inlet and Outlet allows for a streamlined installation and direct access to the controller and lamp/sleeve makes for an easy maintenance and lamp replacement experience.

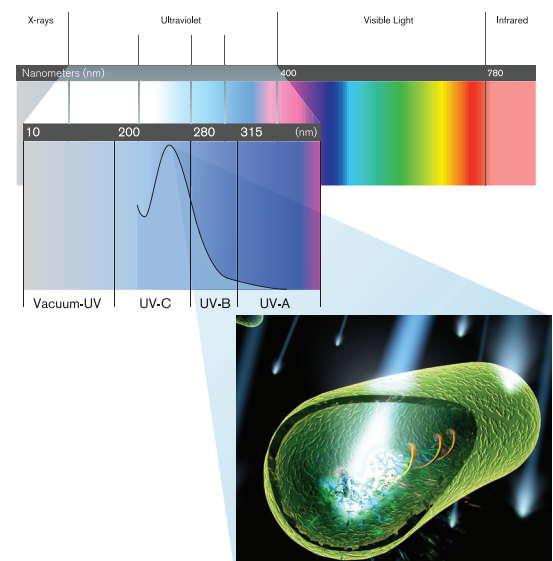
**Suitable for sanitary applications.** Meet high sanitary requirements with high-performance Viton O-rings on the base model and optional Tri-Clamp flange connections.

**Robust feature set on base model.** Includes sample ports, Viton o-ring, digital display of remaining lamp life in days, audible lamp replacement and fault alarms.

## The Benefits of UV

### Broad-spectrum, cost-effective protection

- Widely accepted and endorsed worldwide for treatment of drinking water
- Does not create treatment by-products and does not affect taste
- At approximately 1/5th the cost of ozone treatment and 1/10th the cost of membrane filtration, UV is the most cost-effective approach for multi-barrier treatment strategies
- The VL200-AD, VL200-ADS, VL200-TD, VL200-TDS, VL410-AD, VL410-ADS, VL410-TD, VL410-TDS, and STERIU5 UV systems treat the following: *Cryptosporidium*, *Giardia*, *Escherichia coli* (*E. coli*) and fecal coliform
- The VL410-AT, VL410-ATS, VL410-TT, and VL410-TTS UV water systems break down the following trace chemicals: ozone, chlorine, total organic carbon
- The VL410-AT, VL410-ATS and VL410-TT UV water systems break down the following trace chemicals: ozone, chlorine, total organic carbon



	VL 200	VL 410	VL 410 TOC
<b>GENERAL</b>			
Treatment @ 94% UVT GPM (m <sup>3</sup> /hr)*	11 (2.5)	18 (4.1)	Contact for details
Treatment @ 99% UVT GPM (m <sup>3</sup> /hr)*	12 (2.7)	20 (4.5)	
Number of Lamps (LPHO)	1	1	1
Lamp operating power (W)	25W	46W	46W
Total operating power (W)	35W	60W	60W
<b>UV CHAMBER</b>			
Chamber Material	Type 316L Stainless Steel	Type 316L Stainless Steel	Type 316L Stainless Steel
Dimensions	45cm x 8.9cm (15" x 3.5")	60cm x 8.9cm (23.5" x 3.5")	60cm x 8.9cm (23.5" x 3.5")
Interior Surface Finish	R32	R32	R32
Inlet/Outlet Flange Size Inches (mm)	1" (25)	1.5" (37)	1.5" (37)
Inlet/Outlet Configurations	S-Shape	S-Shape	S-Shape
IP Rating	33	33	33
<b>CONTROLLER</b>			
Lamp replacement countdown in days	Yes	Yes	Yes
Audible lamp replacement/fault alarm	Yes	Yes	Yes
Audible low UVI alarm	Yes (sensor only)	Yes (sensor only)	Yes (sensor only)
Aux Output (Lamp Out Alert)	Yes	Yes	Yes
Dimensions (monitored) (HxWxD) in inches (cm)	22.3cm x 8.1cm x 6.4cm (8.8" x 3.2" x 2.5")	22.3cm x 8.1cm x 6.4cm (8.8" x 3.2" x 2.5")	22.3cm x 8.1cm x 6.4cm (8.8" x 3.2" x 2.5")
Dimensions (non-monitored) (HxWxD) in inches (cm)	17.2cm x 8.1cm x 6.4cm (6.8" x 3.2" x 2.5")	17.2cm x 8.1cm x 6.4cm (6.8" x 3.2" x 2.5")	17.2cm x 8.1cm x 6.4cm (6.8" x 3.2" x 2.5")
IP Rating	54	54	54
<b>OTHER</b>			
Standard Elastomers	Viton	Viton	Viton
<b>OPERATING CONDITIONS</b>			
Min and Max Water Temperature Range	2-40°C (36-104°F)	2-40°C (36-104°F)	2-40°C (36-104°F)
Max Operating Pressure PSI (BAR)	125 (8.6)	125 (8.6)	125 (8.6)

\*Dose Level: 30 mJ/cm<sup>2</sup> after 9,000 hours of operation.

## Guaranteed Performance and Support Services.

All of our systems come with a lifetime performance warranty. Global customer support is available from our Authorized Distributor Network and from our 24/7 Technical Service Group.

For questions regarding your application needs, please contact your local Authorized Distributor or Trojan Technologies for more information.

To learn more about the brands and affiliates of Trojan Technologies, please visit [www.trojantechnologies.com](http://www.trojantechnologies.com)

