

Ultraviolet Water Purification Systems from VIQUA



The quality of drinking water can change with time and become contaminated with harmful bacteria. The Sterilight Platinum™ family of premium UV disinfection systems is a reliable, economical and chemical-free way to safeguard drinking water in any residential application. Sterilight Platinum has been designed and tested to ensure quality drinking water is at everyone's finger tips.

Regardless of your need, there is a Platinum system to suit your requirements. VIQUA offers systems that range in flow rates from just 3 gpm for a small home or cottage, up to 52 gpm for a larger home or small business.

Features of Sterilight Platinum UV water purification 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.
- Platinum "SPV" models are NSF Standard 55 Class A validated.
- Specially designed and tested Sterilume™ -HO lamps provide consistent and reliable ultraviolet output over the entire life of the lamp (9000 hours) to ensure continuous purification, and offer superior performance in cold water conditions.
- The system is easy to maintain and service with easy lamp and cartridge replacement and quick disconnect fittings.
- New Safety-Loc™ connector with interlock that ensures power is disconnected before lamp can be removed, hidden ground wire, and visual lamp on indicator.
- Built with a durable stainless steel chamber to prolong life and eliminate ultraviolet light degradation.
- Patented axial flow system directs water entering the chamber to the most intense area of UV light.
- Unique flow-pacing sensor reduces heating and energy consumption when water is not being used.
- The Platinum™ ICE power supply boasts a graphic interface, universal power, visual elapsed time meter to count down the remaining lamp life in days, visual UV output, constant current output, full system diagnostic on start-up, dry contacts, and universal IEC power input connector.
- The power supply has a sealed case to prevent damage from accidental water intrusion and is fully CSA and CE compliant.
- Monitored systems have a specialized 254nm UV intensity sensor which notifies homeowner of changes in UV performance.
- 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 a level.
- Unique to the Integrated Home Systems:
 - o High-output UV lamp technology coupled with effective filtration to provide a comprehensive whole home system, with the added benefit of NSF55 Class A validation.
 - o Equipped with a 20" sediment filter to remove particles from the water, and a 20" carbon filter to improve the water's taste and remove chlorine odor.
 - o Quick connect union and drain port allows for easy maintenance and winter storage, if required.

SPECIFICATIONS - STANDARD SYSTEMS

MODEL	SP320-HO	SP410-HO	SP600-HO	SP740-HO	SP950-HO
FLOW RATE¹					
US Public Health - 16 mJ/cm ^{2A}	106 lpm (28 gpm) 6.4 m ³ /hr	140 lpm (37 gpm) 8.4 m ³ /hr	151 lpm (40 gpm) 9.1 m ³ /hr	208 lpm (55* gpm) (12.5 m ³ /hr)	208 lpm (55* gpm) (12.5 m ³ /hr)
VIQUA Standard - 30 mJ/cm ²	57 lpm (15 gpm) (3.4 m ³ /hr)	76 lpm (20 gpm) (4.5 m ³ /hr)	132 lpm (35 gpm) (7.9 m ³ /hr)	159 lpm (42 gpm) (9.5 m ³ /hr)	197 lpm (52 gpm) (11.8 m ³ /hr)
NSF/EPA - 40 mJ/cm ²	41 lpm (11 gpm) (2.5 m ³ /hr)	53 lpm (14 gpm) (3.2 m ³ /hr)	98 lpm (26 gpm) (5.9 m ³ /hr)	117 lpm (31 gpm) (7.0 m ³ /hr)	147 lpm (39 gpm) (8.9 m ³ /hr)
DIMENSIONS					
Chamber	58 cm x 9 cm (23" x 3.5")	67 cm x 9 cm (26" x 3.5")	78 cm x 9 cm (31" x 3.5")	100 cm x 9 cm (39" x 3.5")	121 cm x 9 cm (48" x 3.5")
Controller	28 cm x 11 cm x 5 cm (11" x 4.5" x 2")				
Shipping Weight	6.8 kg (15 lbs)	7.7 kg (17 lbs)	8.6 kg (19 lbs)	10.9 kg (24 lbs)	13.1 kg (29 lbs)
Inlet/Outlet Port Size	Combo 3/4" FNPT/ 1" MNPT	1" MNPT	1" MNPT	1.5" MNPT	1.5" MNPT
ELECTRICAL					
Voltage	100-250V/50-60 Hz				
Power Consumption	48 W	60 W	78 W	90 W	110 W
Lamp Watts	37 W	46 W	65 W	75 W	90 W
GENERAL					
Chamber Material	304L SS				
UV Intensity Monitor	Yes	Yes	Yes	Yes	Yes
Flow Pacing - Sensor	Yes	Yes	Yes	Yes	Yes
ELAPSED TIME METER					
Countdown	Yes	Yes	Yes	Yes	Yes
Total Hours	Yes	Yes	Yes	Yes	Yes
CONTROLS					
Dry Contacts	Yes	Yes	Yes	Yes	Yes
Lamp Replacement Reminder	Yes	Yes	Yes	Yes	Yes
Diagnostic Check	Yes	Yes	Yes	Yes	Yes
OPERATING PARAMETERS					
Maximum Operating Pressure	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)
Minimum Operating Pressure	1 bar (14.5 psi)	1 bar (14.5 psi)	1 bar (14.5 psi)	1 bar (14.5 psi)	1 bar (14.5 psi)
Pressure Drop at Rated Flow (30 mJ/cm ²)	0.2 bar (2.5 psi)	0.2 bar (2.5 psi)	0.2 bar (2.5 psi)	0.2 bar (2.5 psi)	0.2 bar (2.5 psi)
Ambient 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)	2-40°C (36-104°F)
Maximum Ambient Temperature	50°C (122°F)	50°C (122°F)	50°C (122°F)	50°C (122°F)	50°C (122°F)
Installation	Horizontal or Vertical				
REPLACEMENT PARTS					
UV Lamp	S320RLHO	S410RLHO	S600RLHO	S740RLHO	S950RLHO
Quartz Sleeve	QS-320	QS-410	QS-600	QS-740	QS-950
Controller	SPC-ICE-HO				
Sensor	254NM-FP1				

¹ Flow rates stated at 95% UVT

* Restricted by inlet/outlet



SPECIFICATIONS - VALIDATED SYSTEMS

MODEL	SPV-200	SPV-410	SPV-600	SPV-740	SPV-950
Rated flow ¹ at dose of 40 mJ/cm ²	10 lpm (2.6 gpm) (0.5 m ³ /hr)	22 lpm (5.9 gpm) (1.3 m ³ /hr)	32 lpm (8.6 gpm) (1.9 m ³ /hr)	43 lpm (11.2 gpm) (2.5 m ³ /hr)	56 lpm (14.9 gpm) (3.4 m ³ /hr)
DIMENSIONS					
Reactor	45 cm x 9 cm (18" x 3.5")	67 cm x 9 cm (26" x 3.5")	86 cm x 9 cm (34" x 3.5")	100 cm x 9 cm (39" x 3.5")	121 cm x 9 cm (48" x 3.5")
Controller	28 cm x 11 cm x 5 cm (11" x 4.5" x 2")				
Shipping Weight	5.4 kg (12 lbs)	6.8 kg (15 lbs)	8.2 kg (18 lbs)	8.6 kg (19 lbs)	9.5 kg (21 lbs)
Inlet/Outlet Port Size	1/2" MNPT	Combo 3/4" FNPT/ 1" MNPT	Combo 3/4" FNPT/ 1" MNPT	Combo 3/4" FNPT/ 1" MNPT	Combo 3/4" FNPT/ 1" MNPT
ELECTRICAL					
Voltage	100-250V/50-60 Hz				
Power Consumption	38 W	60 W	78 W	90 W	110
Lamp Watts	27 W	46 W	65 W	75 W	90 W
GENERAL					
Chamber Material	316L SS				
Electropolished & Passivated	Yes	Yes	Yes	Yes	Yes
UV Intensity Monitor	Yes	Yes	Yes	Yes	Yes
Flow Pacing Sensor	Yes	Yes	Yes	Yes	Yes
ELAPSED TIME METER					
Countdown	Yes	Yes	Yes	Yes	Yes
Total Hours	Yes	Yes	Yes	Yes	Yes
CONTROLS					
Flow Restrictor	Yes	Yes	Yes	Yes	Yes
Dry Contacts	Yes	Yes	Yes	Yes	Yes
Lamp Replacement Reminder	Yes	Yes	Yes	Yes	Yes
Diagnostic Check	Yes	Yes	Yes	Yes	Yes
OPERATING PARAMETERS					
Maximum Operating Pressure	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)	8.62 bar (125 psi)
Minimum Operating Pressure	1 bar (14.5 psi)	1 bar (14.5 psi)	1 bar (14.5 psi)	1 bar (14.5 psi)	1 bar (14.5 psi)
Pressure Drop at Rated Flow	0.3 bar (4 psi) at 50% rated flow*	0.3 bar (4 psi) at 50% rated flow*	0.3 bar (4 psi) at 50% rated flow*	0.3 bar (4 psi) at 50% rated flow*	0.3 bar (4 psi) at 50% rated flow*
Ambient 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)	2-40°C (36-104°F)
Maximum Water Temperature	50°C (122°F)	50°C (122°F)	50°C (122°F)	50°C (122°F)	50°C (122°F)
Installation	50°C (122°F)	50°C (122°F)	50°C (122°F)	50°C (122°F)	50°C (122°F)
NSF/ANSI Certification Standard 55, Class A	Yes	Yes	Yes	Yes	Yes
REPLACEMENT PARTS					
UV Lamp	S200RL-HO	S410RL-HO	S600RL-HO	S740RL-HO	S950RL-HO
Quartz Sleeve	QS-200	QS-410	QS-600	QS-740	QS-950
Controller	SPC-ICE-HO				
Sensor	254NM-FP2				

¹ Flow rates as determined by NSF/ANSI Standard 55 testing.

* Pressure drop due to flow restrictor




Systems tested and certified by NSF International against NSF/ANSI Standard 55 for disinfection performance, Class A.

SPECIFICATIONS - INTEGRATED HOME SYSTEM

MODEL	SPV410-IHS22
¹ Rated flow at dose of 40 mJ/cm ²	22 lpm (5.9 gpm) (1.3 m ³ /hr)
ELECTRICAL	
Voltage	90-265V/50-60 Hz.
Power Consumption	60 W
Lamp Watts	46 W
DIMENSIONS	
Overall Dimensions (width x depth x height)	63 cm x 20 cm x 84 cm 25" x 8" x 33.25"
Shipping Weight	11 kg (25 lbs)
Inlet/Outlet Port Size	3/4 1" NPT

¹ Flow rates stated as determined by NSF/ANSI Standard 55 Class A testing of the SPV-410.

GENERAL	
Chamber Material	316L SS
Electropolished & Passivated	Yes
UV Intensity Monitor	Yes
Flow Pacing – Sensor	Yes
Filter Housing	Two 20" high flow
ELAPSED TIME METER	
Countdown	Yes
Total Hours	Yes
CONTROLS	
Flow Restrictor	Yes
Dry Contacts	Yes
Solenoid Valve [†]	Optional
Lamp Replacement Reminder	Yes
Diagnostic Check	Yes
OPERATING PARAMETERS	

Maximum Operating Pressure	8.62 bar (125 psi)
Minimum Operating Pressure	1 bar (14.5 psi)
Pressure Drop at Rated Flow	0.3 bar (4 psi) at 50% rated flow*
Ambient Water Temperature	2-40°C (36-104°F)
Maximum Ambient Temperature	40°C (104°F)
System incorporates VIQUA/Sterilight SPV-410	 Standard 55 Class A

Other Certifications	 
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* Pressure drop due to flow restrictor not limited by the installed cartridge.
[†] Please order P/N SOL -1.0 (for 1") or SOL -0.75 (for 3/4") and 270142.

Replacement Parts

S410RL-HO – UV lamp
QS-410 – quartz sleeve
SPC-ICE-HO – controller
254NM-FP2 – UV sensor
410867 – o-ring for quartz sleeves
RN-001 – retaining-nut
CMB-520-HF – sediment cartridge, 5 microns
C2-02 – modified block carbon, 5 microns

Warranty

Please visit www.viqua.com for the comprehensive warranty for our Sterilight product line.