

Ensuring the **Safety** of your **Water** with **Confidence**

Aqualight® SUV

ULTRAVIOLET DISINFECTION SYSTEM

Ultraviolet (UV-C rays /253.7 nm) water disinfection system is a unique and rapid method of water disinfection without the use of heat or chemicals to effectively destroys bacteria, virus, mold & algae. Ultraviolet (UV) light treatment is a widely recognized and proven method of disinfection of water and has several advantages over other disinfection methods such as chlorination, ozonation, etc . UV light does not add anything to the water, such as undesirable color, odor, taste or flavor, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. Also, UV disinfection requires only a fraction of the contact times required by other disinfection methods. It is fast, efficient, effective, economical and environmentally-friendly.


Advantages: Effective Economical Safe Fast & Easy Automatic Chemical Free

Applications: Drinking Water Food Processing Medical Industries



Aqua Lightech Limited
www.aqualightech.com

Commercial Industrial Application

Model	SV50	SV80	SV100	SV150	SV200	SV250	SV300	SV350	SV400	SV500	SV600
Flow Rate gpm(m3/hr.)	50 (11)	80 (18)	100 (23)	150 (34)	200 (45)	250 (57)	300 (68)	350 (80)	400 (91)	500 (115)	600 (136)
Inlet/Outlet Flange	2"		3"		4"				6"		
Dimensions	92.5x25x37cm (36.4"x9.8"x14.6")	92.5x25x42cm (36.4"x9.8"x16.5")	92.5x32x41cm (36.4"x12.6"x16.1")		159x39x51cm(62.6"x15.4"x20")				159x39x54cm (62.6"x15.4"x21.2")		159x39x60cm (62.6"x15.4"x23.6")
Material	Stainless Steel #304 (SS316 on Request)										
Detachable Control Panel	30x17x40cm (11.8"x6.7"x15.7")	35x18x46cm (13.8"x7"x18.1")	35x18x46cm (13.8"x7"x18.1")	42x20x52cm(16.5"x7.9"x20.5")			42x22x62cm(16.5"x8.7"x24.4")				42x22x72cm (16.5"x8.7"x28.4")
Lamp Part#/Watts	GHO36T5L/4-LT, 80 Watts, 800mA, 254nm					GHO64T5L/4-LT, 155 Watts, 800mA, 254nm					
Optional 	USAL846T5L-HO, 90 Watts, 800mA, 254nm					USAL1554T5L-HO, 155 Watts, 800mA, 254nm					
Rated Life	10,000 Hours										
Quartz Sleeve Part#	QS900, length 900mm					QS1560, length 1560mm					
Ballast Part#	GDB80095L2, 100V.-240V./50-60Hz.					GDB800155L2, 100V.-240V./50-60Hz.					
Numbers of Lamp/ Quartz Sleeve	2	3	4	6	4	5	6	7	8	10	12
Numbers of Ballast	2	3	4	6	4	5	6	7	8	10	12

*Flow Rate Stated at 30mJ/cm2 based on 95% UVT of EOL (End of Lamp Life)

Control

Timer Monitor #GDT-9000
Input Power : AC85~265V. Power ON-OFF Switch
Lamp Operating Hours up to 9,000 hours
End of Lamp Life Alarm and Resettable
Lamp Operating Green LED, Audible Lamp Failure with Red
Total Running Days up to 9,999 days.
Dry Contacts (Lamp or Power Fails)



Option

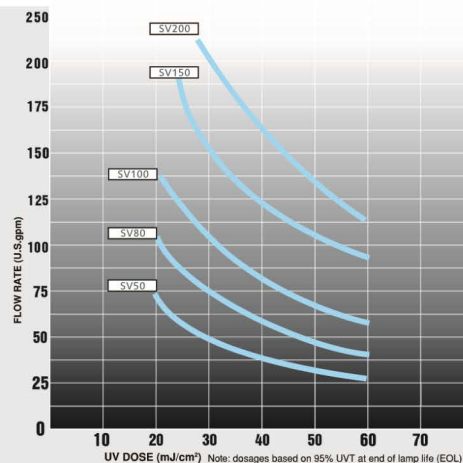
Ultraviolet Intensity Monitor, 4-20mA Output
Temperature Monitor
Sanitary Connections

Operating Parameters

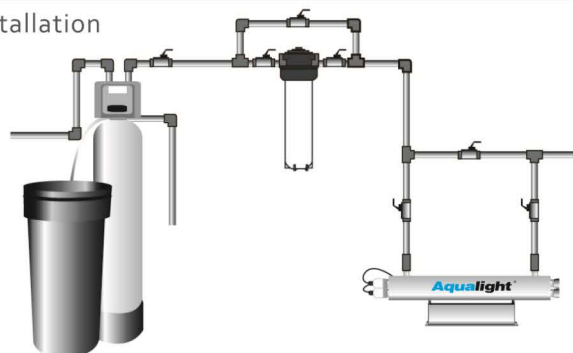
- † Max. operating pressure 125psi(8.62 bar)
- † Ambient water temperature 2-40°C (36-104°F)
- † Iron < 0.3ppm (0.3 mg/L)
- † Hardness < 7gpg (120mg/L)
- † Turbidity < 1 NTU
- † UV Transmittance > 75%

General

- † 4-Log(99.99%) Reduction in Bacteria Viruses and Protozoan Cysts
- † SS304 Construction Material, SS316 on Request
- † Horizontal Installation



Typical Installation



Warranty Aqualight® ultraviolet disinfection systems carry a TWO year warranty on the stainless steel reactor chamber, a one year warranty on UV lamp, quartz sleeve and other components.