

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

# **Aqualight<sup>®</sup> SLT** 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](http://www.aqualightech.com)

Commercial Industrial Application

Model	SLT12	SLT24	SLT36	SLT50	SLT80	SLT100	SLT150
Flow Rate	12 gpm (3 m3/hr.)	24 gpm (6 m3/hr.)	36gpm (8 m3/hr.)	50 gpm (11 m3/hr.)	80 gpm (18 m3/hr.)	100 gpm (23 m3/hr.)	150 gpm (34 m3/hr.)
Inlet/Outlet Ports	1"		1-1/2"	2"		3"	
Dimensions	92.5x18x25cm(36.4"x7"x9.8")			92.5x25x42cm (36.4"x9.8"x16.5")		92.5x32x41cm (36.4"x12.6"x16.1")	
Material	Stainless Steel #304 ( SS316 on Request)						
Lamp Part#/Watts	G36T5L/4-LT, 39 Watts, 425mA, 254nm			GHO36T5L/4-LT, 80 Watts, 800mA, 254nm			
Optional 	USAL843T5L, 41 Watts, 425mA, 254nm			USAL846T5L-HO, 90 Watts, 800mA, 254nm			
Rated Life	10,000 Hours						
Quartz Sleeve Part#	QS900, length 900mm						
Ballast Part#	GDB42540L2 100V.-240V./50-60Hz.			GDB80095L2, 100V.-240V./50-60Hz.			
Numbers of Lamp/ Quartz Sleeve/Ballast	1	2	3	2	3	4	6

\*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

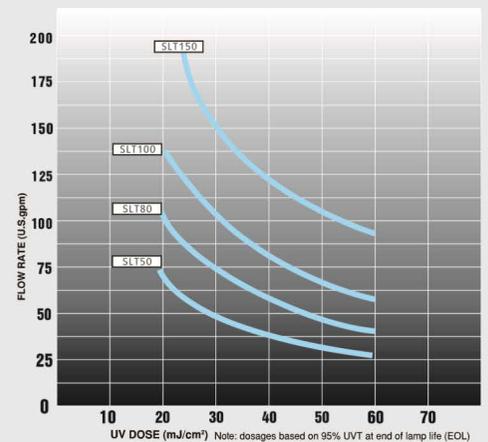
Ultraviolet Intensity Monitor, 4-20mA Output  
 Temperature Monitor  
 Sanitary Connections

### Operating Parameters

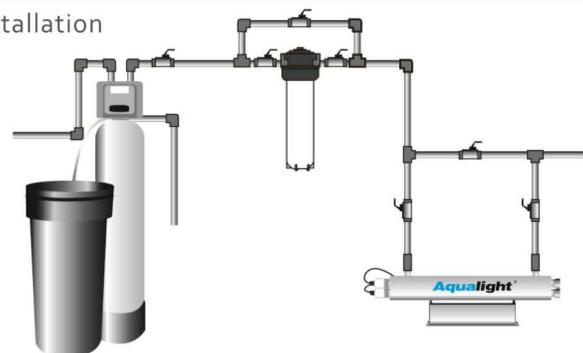
- + Max. operating pressure 125psi(8.62 bar)
- + Ambient water temperature 2-40°C (36-104°F)
- + Iron < 0.3ppm (0.3 mg/L)
- + Hardness < 7gpg (120mg/L)
- + Turbidity < 1 NTU
- + UV Transmittance > 75%

### 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.