Aqualight®

About Us

Aqua Lightech Limited offers wide range of products related to residential, commercial and industrial applications. As an enterprise concerned with active healthcare, we are committed to the chemical-free treatment of water with ultraviolet water disinfection. We began in Shanghai, China as a manufacturer of Aqualight® ultraviolet water disinfection systems and specialized private-label manufacturer.

Warranty

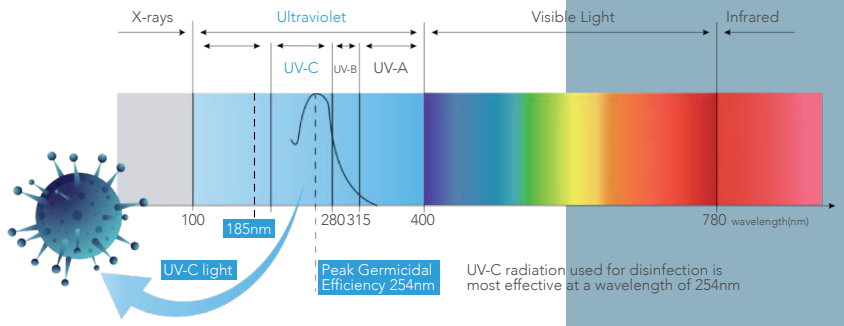
Aqua Lightech Limited warrants the ultraviolet disinfection system's hardware and electrical systems to be free from defects in material and workmanship for a period for one (1) years from the dates of purchase by the original owner (consumer) on a pro-rated basis. Aqua Lightech Limited warrants the ultraviolet lamps and sensor probes to be free from defects in material and workmanship for a period of 9,000 hours and the reactor chamber for a period of three (3) years. Aqua Lightech Limited will at its option and expense, either repair or replace such units subject to the following conditions, exceptions, and exclusions.

The foregoing limited Warranty is subject to the following terms and conditions:

- Water passed through the unit must fall within the following parameters:
- Where total hardness is less than 7gpg, the UV unit should operate efficiently provided the quartz sleeve and/or sensor probe is cleaned periodically. If total hardness is over 7gpg, the water should be softened. Warranty will be void if the proper steps are not taken to ensure that these impurities are not present.
    - Turbidity < 1NTU
    - Tannins < 0.1 ppm (0.3 mg/L)
    - UV Transmittance >75%
    - Iron< 0.3 ppm (0.3mg/L)
    - Hardness < 7 gpg (120 mg/L)
    - Manganese < 0.05 ppm (0.05 mg/L)
- This limited warranty shall not apply to any unit which has been repaired or altered by anyone other than the warrantor or by a person authorized by the warrantor, not to any units which have been subject to misuse, neglect, or accident.
- This limited warranty runs exclusively to the original consumer and with respect to the original installation only.
- Warrantor shall not be liable for any incidental or consequential damages.
- This limited warranty excludes the cost of labor in removing any defective unit or installing any replacement unit. This limited warranty applies only to a unit when returned to the warrantor at the owner's expense and in accordance with shipping instructions received from the warrantor.

Ultraviolet Light

Ultraviolet rays with wavelengths shorter than 300 nm are extremely effective in killing microorganisms. The most effective sterilizing range for UV is within the C bandwidth (UV-C). This range is called the germicidal bandwidth. UV-C has been used in hospitals for decades to sterilize surgical instruments, water, and the air in operating rooms. Many food and drug companies use germicidal lamps to disinfect various types of products and their containers.

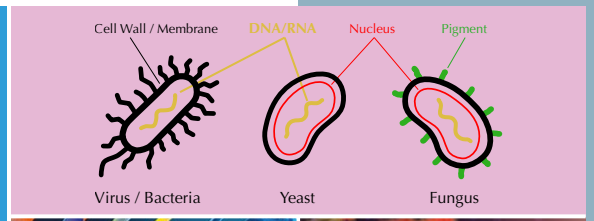


All living organisms contain DNA (deoxyribonucleic acid). DNA provides the mechanism for all functions . needed to sustain life. The UV light from 200 to 300 nm is easy to be absorbed by the cells, and the 253.7 nm has the strongest disinfection ability. The UV light penetrates the outer cell membranes of microorganisms, passes through the cell body, reaches the DNA and permanently alters the genetic material. The microorganisms are thereby destroyed in a non-chemical manner.

UV disinfection is a purely physical process. Micro-organisms such as bacteria, viruses, yeast, etc. that are exposed to the effective UV-C radiation are inactivated within seconds. It does not add anything to the water, such as undesirable color, odor, taste or flavor, nor does it generate harmful byproducts. It is fast, efficient, effective, economical and environmentally friendly.

Ultraviolet technology can be used for water disinfection as well other liquids and air. Ultraviolet light represents a powerful technology that has been successfully deployed in several diverse industries such as pharmaceutical, semiconductor, power generation, food and beverage, cosmetics, aquaculture, and healthcare for several decades. While the most common application of UV radiation in water treatment is disinfection, its powerful energy can also be harnessed for other applications such as TOC (Total Oxidizable Carbon) reduction, ozone destruction, and chlorine/ chloramines destruction.

Two different UV wavelengths are employed in water treatment, the 254nm and the185nm. The 254nm (1nm=10^{-9} m) UV light (also called the "germicidal light" because of its unique ability to destroy microorganism) is employed in disinfection and ozone destruction applications. The 254nm UV light can also destroy residual ozone present in a water stream. The 185nm UV light, utilized in TOC reduction application, decomposes the organic molecules and carries more energy than the 254nm light. It is also capable of cleaving the water molecule to yield hydroxyl (OH·) free radicals. The mechanism of oxidation of the organic species by UV radiation is a complex one. The centerpiece of the reaction is the OH free-radical. It plays a pivotal role in the oxidation reaction. The OH radicals are responsible for oxidizing the hydrocarbon molecules quantified as TOC into carbon dioxide and water molecules. The OH radical is one of the most powerful oxidizing agents known to science.



Using standardized and client-specific systems, Aqua Lightech Limited offers solutions for drinking water, process water, purified water and sewage, as well as for special applications.

- No chemicals added
- No environmental problems
- No by-products that might endanger health
- No reaction tanks or secondary pumps
- Micro-organisms inactivated within seconds
- Minimum operating costs
- Maximum operating safety
- Modular system for adaptability
- Water retains its natural flavor and smell

The UV dose delivered by a given reaction chamber is dependent on many factors, including water quality and flow rate. Actual delivered dosage is flow dependent. As dose is a product of UV intensity and residence time within the reaction chamber, changed in flow rates through a reaction chamber will change the delivered dose. Refer the dosage chart of systems in specification sheets.

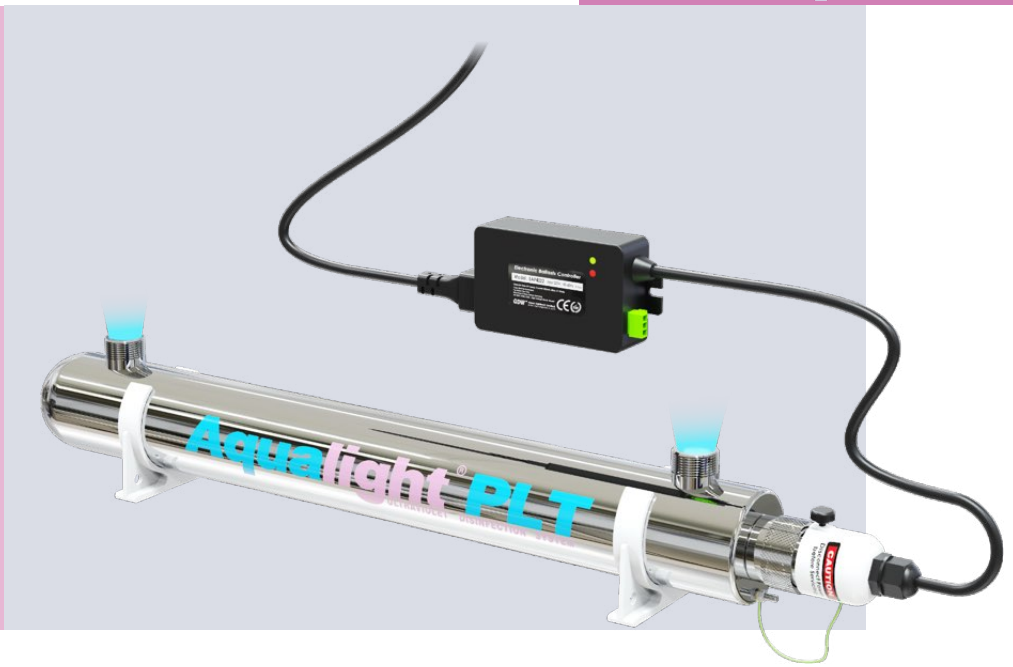
Dosage is the product of Intensity with Contact Time, Intensity * Time = micro Watt/cm²* time = microwatt-seconds per square centimeter (µW-s/cm²). Note: 1000 µW-s/cm² = 1 mJ/cm² (milli-Joule/cm²)

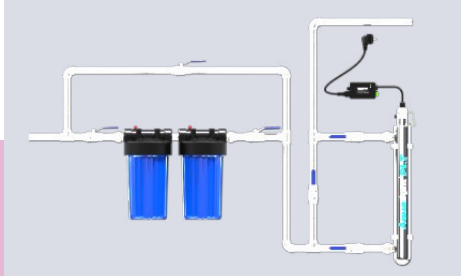
As a general guideline, the following are some typical UV transmission rates (UVT) :

- City water supplies : 85-98%
- Surface waters (lakes, rivers, etc) : 70-90%
- De-ionized or Reverse Osmosis water : 95 -98%
- Ground water (wells) : 90-95%
- Other liquids : 1-99%

TENT CON

Aqualight® PLT
ULTRAVIOLET WATER DISINFECTION





The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

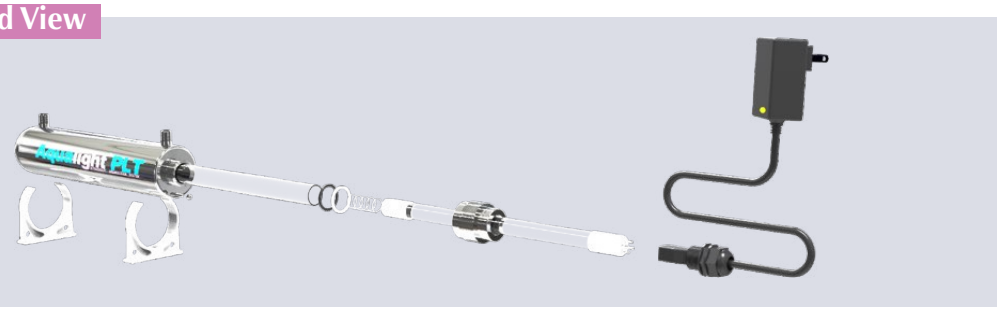
Basic models PLT1 - PLT2 - PLT4 flow rates 1gpm - 2gpm - 4gpm for residential POU. Operation status visible and audible. Basic models PLT6 - PLT8 - PLT12 flow rates 6gpm - 8gpm - 12gpm for residential POU/POE, small business, light commercial. Operation status visible and audible.

Specifications

Model	PLT1	PLT2	PLT4	PLT6	PLT8	PLT12
Flow Rates @ 30mJ/cm2	1gpm, 3.8lpm, 0.25m3/hr	2gpm, 7.5lpm, 0.5m3/hr	4gpm, 15.1lpm, 1.0m3/hr	6gpm,22.7lpm, 1.4m3/hr	8gpm, 30.2lpm, 1.8m3/hr	12gpm, 45.4lpm, 3.0m3/hr
Flow Rates @ 40mJ/cm2	0.8gpm, 3.0lpm, 0.18m3/hr	1.5gpm, 5.7lpm, 0.34m3/hr	3gpm, 11.4lpm, 0.7m3/hr	4.5gpm,17lpm, 1.0m3/hr	6gpm, 22.7lpm, 1.4m3/hr	9gpm, 34.1lpm, 2.0m3/hr
Inlet / Outlet	1/4"	1/4" or 1/2"	1/2"	3/4"	3/4"	1"
Dimensions	27*5.1cm (10.6*2 in.)	36*6.5cm (14.2*2.5 in.)	41*6.5cm (16.2*2.5 in.)	56*6.5cm (22*2.5 in.)	70*6.5cm (28*2.5 in.)	92*6.5cm (36*2.5 in.)
Ultraviolet Lamp	GPH212T5L/4-LT 10 Watts	GPH287T5L/4-LT 14 Watts	GPH330T5L/4-LT 19 Watts	GPH505T5L/4-LT 28 Watts	GPH645T5L/4-LT 32 Watts	G36T5L/4-LT 39 Watts
Quartz Sleeve	QS245	QS331	QS375	QS535	QS665	QS890
Basic Controller	Part# BAP2011, 110V./50-60Hz. or BAP2022, 220V./50-60Hz., 6.5*4.5*2.8cm (2.6*1.8*1.1 in.)			Part# BAP4011, 110V./50-60Hz. or BAP4022, 220V./50-60Hz., 11.6*6*2.6cm (4.6*2.4*1.03 in.)		
Features	Lamp Operating Indicator, Audible Lamp Failure			Lamp Operating Indicator, Audible Lamp Failure, Optional GDCT-365 Lamp Life Countdown Timer		

‣ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20°C

Exploded View



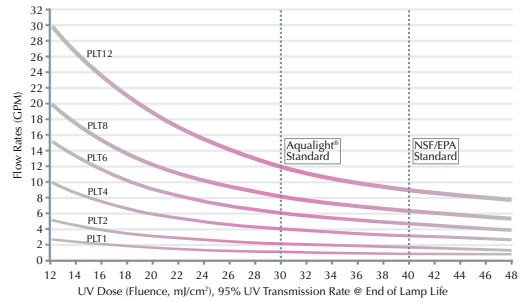
General

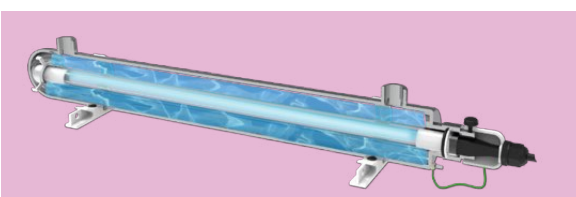
- SS304 Construction Material (SS316 as Request)
- 4-Log (99.99%) Reduction in Bacteria, Viruses and Protozoan Cysts
- Vertical Installation (recommend) or Horizontal

Parameters

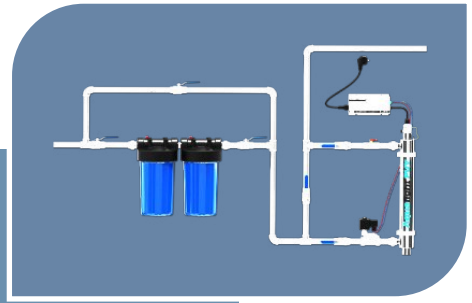
- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104°F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

Dose





Aqualight® PUV
ULTRAVIOLET WATER DISINFECTION



The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Basic models PV1 - PV12 flow rates 1gpm (3.8 lpm, 0.25m3/hr.) up to 12gpm (45.4 lpm, 3m3/hr.) for residential POU/POE. Operation status visible and audible. Advanced models PV1T - PV52T flow rates 1gpm (3.8 lpm, 0.25m3/hr.) up to 52gpm (196.8 lpm, 11.8m3/hr.) for residential POU/POE, small business, light commercial. Lamp remaining life reminder.

Specifications

Model	PV1	PV2	PV4	PV6	PV8	PV12
Basic Controller	Part No. BAP4011, 110V./50-60Hz. or BAP4022, 220V./50-60Hz., 11.6*6*2.6cm (4.6*2.4*1.03 in.)					
Features	Lamp Operating Indicator, Audible Lamp Failure, Optional GDCT-365 Lamp Life Countdown Timer					
Model	**PV1T**	**PV2T**	**PV4T**	**PV6T**	**PV8T**	**PV12T**
Advanced Controller	Part No. BAP40365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)					
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact					
Flow Rates @ 30mJ/cm2	1gpm, 3.8lpm, 0.25m3/hr	2gpm, 7.5lpm, 0.5m3/hr	4gpm, 15.1lpm, 1.0m3/hr	6gpm,22.7lpm, 1.4m3/hr	8gpm, 30.2lpm, 1.8m3/hr	12gpm, 45.4lpm, 3.0m3/hr
Flow Rates @ 40mJ/cm2	0.8gpm, 3.0lpm, 0.18m3/hr	1.5gpm, 5.7lpm, 0.34m3/hr	3gpm, 11.4lpm, 0.7m3/hr	4.5gpm,17lpm, 1.0m3/hr	6gpm, 22.7lpm, 1.4m3/hr	9gpm, 34.1lpm, 2.0m3/hr
Inlet / Outlet	1/4"	1/4" or 1/2"	1/2"	3/4"	3/4"	1"
Dimensions	28*5.1cm (11*2 in.)	36*6.5cm (14*2.5 in.)	42*6.5cm (17*2.5 in.)	56*6.5cm (22*2.5 in.)	70*6.5cm (28*2.5 in.)	92*6.5cm (36*2.5 in.)
Ultraviolet Lamp	GPH212T5L/4-LT 10 Watts	GPH287T5L/4-LT 14 Watts	GPH330T5L/4-LT 19 Watts	GPH505T5L/4-LT 28 Watts	GPH645T5L/4-LT 32 Watts	G36T5L/4-LT 39 Watts
Quartz Sleeve	QS245	QS331	QS375	QS535	QS665	QS890
Model	**PV18T**	**PV24T**	**PV35T**	**PV42T**	**PV52T**	
Advanced Controller	Part No. BAP100365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)					
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact					
Flow Rates @ 30mJ/cm2	18gpm, 68lpm, 4.1m3/hr	24gpm, 90.8lpm, 5.5m3/hr	35gpm, 132.4lpm, 7.9m3/hr	42gpm, 159lpm, 9.5m3/hr	52gpm, 196.8lpm, 11.8m3/hr	
Flow Rates @ 40mJ/cm2	13.5gpm, 51lpm, 3.1m3/hr	18gpm, 68lpm, 4.1m3/hr	26.3gpm, 99.5lpm, 6m3/hr	31.5gpm,119lpm, 7.2m3/hr	39gpm, 147.6lpm, 9m3/hr	
Inlet / Outlet	1"	1"	1"	11/2"	11/2"	
Dimensions	49*8.9cm (19*3.5 in.)	57*8.9cm (23*3.5 in.)	76*8.9cm (30*3.5 in.)	92*8.9cm (36*3.5 in.)	111*8.9cm (43*3.5 in.)	
Ultraviolet Lamp	GHO422T5L/4-LT 40 Watts	GHO512T5L/4-LT 50 Watts	GHO702T5L/4-LT 65 Watts	GHO36T5L/4-LT 80 Watts	GHO1052T5L/4-LT 100 Watts	
Quartz Sleeve	QS452	QS542	QS732	QS890	QS1082	

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

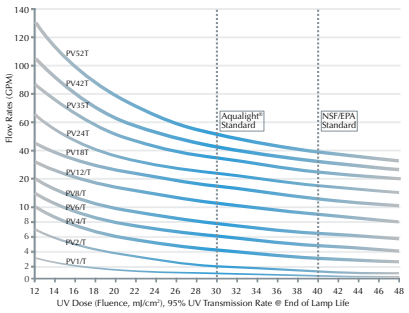
General

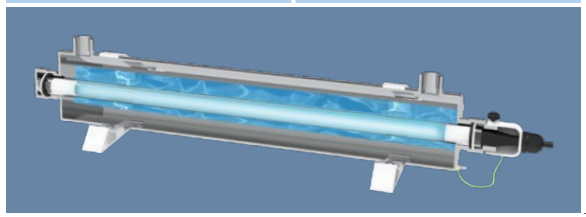
- SS304 Construction Material (SS316 as Request)
- 4-Log (99.99%) Reduction in Bacteria, Viruses and Protozoan Cysts
- Vertical Installation (recommend) or Horizontal

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

Dose





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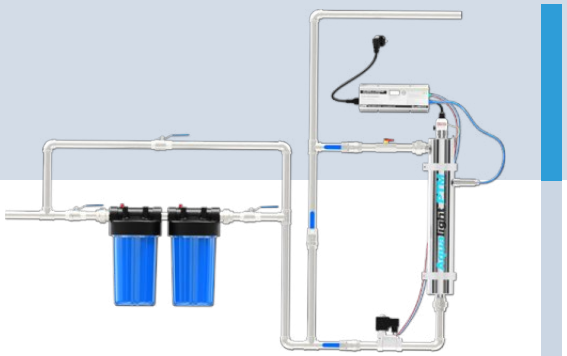
Aqualight® PTM
ULTRAVIOLET WATER DISINFECTION



The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Advanced models PTM2 - PTM52 flow rates 2gpm (7.5 lpm, 0.5m3/hr.) up to 52gpm (196.8 lpm, 11.8m3/hr.) for residential POU/POE. Operation status visible and audible. Monitored models PTM2S - PTM52S flow rates 2gpm (7.5 lpm, 0.5m3/hr.) up to 52gpm (196.8 lpm, 11.8m3/hr.) for residential POU/POE, small business, light commercial. Lamp remaining life reminder.

Specifications

Model	PTM2	PTM4	PTM6	PTM8	PTM12
Advanced Controller	Part No. BAP40365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)				
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact				
Monitored	**PTM2S**	**PTM4S**	**PTM6S**	**PTM8S**	**PTM12S**
Monitored Controller	Part No. BAP40365MS, Universal Voltage100V.-250V./50-60Hz., 24*9.5*5cm (9.5*3.7*2 in.)				
Sensor	Part No. GDS254NM15-V, RJ45 Connection, SS316				
Features	Lamp Operating Indicator, Audible Lamp Failure, Ultraviolet Intensity Monitoring, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact				
Flow Rates @ 30mJ/cm2	2gpm, 7.5lpm, 0.5m3/hr	4gpm, 15.1lpm, 1.0m3/hr	6gpm,22.7lpm, 1.4m3/hr	8gpm, 30.2lpm, 1.8m3/hr	12gpm, 45.4lpm, 3.0m3/hr
Flow Rates @ 40mJ/cm2	1.5gpm, 5.7lpm, 0.34m3/hr	3gpm, 11.4lpm, 0.7m3/hr	4.5gpm,17lpm, 1.0m3/hr	6gpm, 22.7lpm, 1.4m3/hr	9gpm, 34.1lpm, 2.0m3/hr
Inlet / Outlet	1/4" or 1/2"	1/2"	3/4"	3/4"	1"
Dimensions	39*6.5cm (15.4*2.5 in.)	43*6.5cm (17*2.5 in.)	59*6.5cm (23*2.5 in.)	72*6.5cm (28.4*2.5 in.)	95*6.5cm (37.4*2.5 in.)
Ultraviolet Lamp	GPH287T5L/4-LT 14 Watts	GPH330T5L/4-LT 19 Watts	GPH505T5L/4-LT 28 Watts	GPH645T5L/4-LT 32 Watts	G36T5L/4-LT 39 Watts
Quartz Sleeve	QS331	QS375	QS535	QS665	QS890
Model	**PTM18**	**PTM24**	**PTM35**	**PTM42**	**PTM52**
Advanced Controller	Part No. BAP100365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)				
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact				
Monitored	**PTM18S**	**PTM24S**	**PTM35S**	**PTM42S**	**PTM52S**
Monitored Controller	Part No. BAP100365MS, Universal Voltage100V.-250V./50-60Hz., 24*9.5*5cm (9.5*3.7*2 in.)				
Sensor	Part No. GDS254NM15-V, RJ45 Connection, SS316				
Features	Lamp Operating Indicator, Audible Lamp Failure, Ultraviolet Intensity Monitoring, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact				
Flow Rates @ 30mJ/cm2	18gpm, 68lpm, 4.1m3/hr	24gpm, 90.8lpm, 5.5m3/hr	35gpm, 132.4lpm, 7.9m3/hr	42gpm, 159lpm, 9.5m3/hr	52gpm, 196.8lpm, 11.8m3/hr
Flow Rates @ 40mJ/cm2	13.5gpm, 51lpm, 3.1m3/hr	18gpm, 68lpm, 4.1m3/hr	26.3gpm, 99.5lpm, 6m3/hr	31.5gpm,119lpm, 7.2m3/hr	39gpm, 147.6lpm, 9m3/hr
Inlet / Outlet	1"	1"	1"	11/2"	11/2"
Dimensions	51*8.9cm (20*3.5 in.)	60*8.9cm (23.6*3.5 in.)	79*8.9cm (31.1*3.5 in.)	95*8.9cm (37.4*3.5 in.)	114*8.9cm (44.9*3.5 in.)
Ultraviolet Lamp	GHO422T5L/4-LT 40 Watts	GHO512T5L/4-LT 50 Watts	GHO702T5L/4-LT 65 Watts	GHO36T5L/4-LT 80 Watts	GHO1052T5L/4-LT 100 Watts
Quartz Sleeve	QS452	QS542	QS732	QS890	QS1082

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

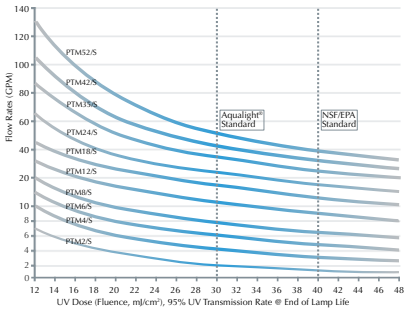
General

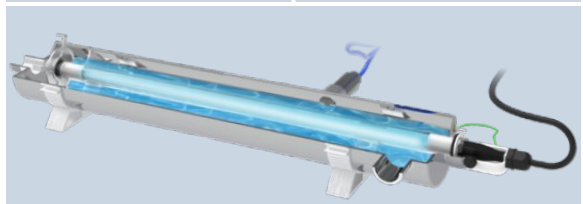
- SS304 Construction Material (SS316 as Request)
- 4-Log (99.99%) Reduction in Bacteria, Viruses and Protozoan Cysts
- Vertical Installation (recommend) or Horizontal

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

Dose





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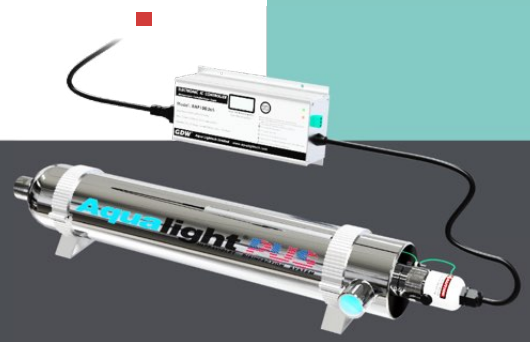
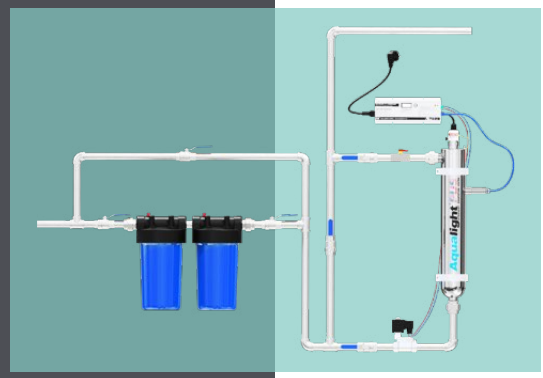
Aqualight® PUS
ULTRAVIOLET WATER DISINFECTION



The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Advanced models PUS6 - PUS50 flow rates 6gpm (22.7 lpm, 1.4m3/hr.) up to 50gpm (190 lpm, 11m3/hr.) for residential POU/POE. Operation status visible and audible. Monitored models PUS6MS - PUS50MS flow rates 6gpm (22.7 lpm, 1.4m3/hr.) up to 50gpm (190 lpm, 11m3/hr.) for residential POU/POE, small business, light commercial. Lamp remaining life reminder.



Specifications

Model	PUS6	PUS9	PUS13	PUS24	PUS35	PUS50
Advanced Controller	Part No. BAP40365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)			Part No. BAP100365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)		
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact					
Monitored	**PUS6MS**	**PUS9MS**	**PUS13MS**	**PUS24MS**	**PUS35MS**	**PUS50MS**
Monitored Controller	Part No. BAP40365MS, Universal Voltage100V.-250V./50-60Hz., 24*9.5*5cm (9.5*3.7*2 in.)			Part No. BAP100365MS, Universal Voltage100V.-250V./50-60Hz., 24*9.5*5cm (9.5*3.7*2 in.)		
Sensor	Part No. GDS254NM15-V, RJ45 Connection, SS316					
Features	Lamp Operating Indicator, Audible Lamp Failure, Ultraviolet Intensity Monitoring, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact					
Flow Rates @ 30mJ/cm2	6gpm,22.7lpm, 1.4m3/hr	9gpm, 34lpm, 2m3/hr	13gpm, 49lpm, 3m3/hr	24gpm, 91lpm, 5.5m3/hr	35gpm, 132lpm, 8m3/hr	50gpm, 190lpm, 11m3/hr
Flow Rates @ 40mJ/cm2	4.5gpm,17lpm, 1.0m3/hr	6.8gpm, 25.7lpm, 1.54m3/hr	9.8gpm, 37.1lpm, 2.23m3/hr	18gpm, 68lpm, 4.1m3/hr	26.3gpm, 99.5lpm, 6m3/hr	37.5gpm, 142lpm, 8.5m3/hr
Inlet / Outlet	3/4"	3/4"	1"	1"	1"	11/2"
Dimensions	58*6.5cm (22.8*2.5 in.)	71*6.5cm (28.4*2.5 in.)	94*6.5cm (37.4*2.5 in.)	60*8.9cm (23.6*3.5 in.)	79*8.9cm (31.1*3.5 in.)	95*8.9cm (37.4*3.5 in.)
Ultraviolet Lamp	USAL505T5L 28 Watts	USAL635T5L 32 Watts	USAL843T5L 41Watts	USAL512T5L-HO 55 Watts	USAL702T5L-HO 66 Watts	USAL846T5L-HO 90 Watts
Quartz Sleeve	QS535	QS665	QS890	QS542	QS732	QS890

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

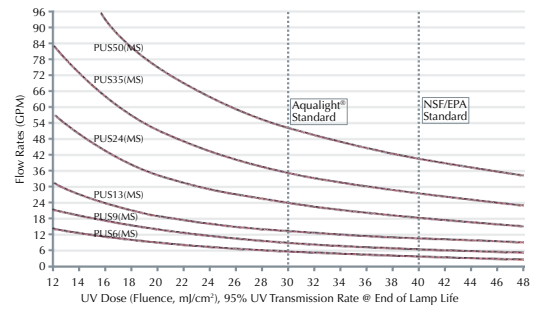
General

- SS304 Construction Material (SS316 as Request)
- 4-Log (99.99%) Reduction in Bacteria, Viruses and Protozoan Cysts
- Vertical Installation (recommend) or Horizontal

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

Dose



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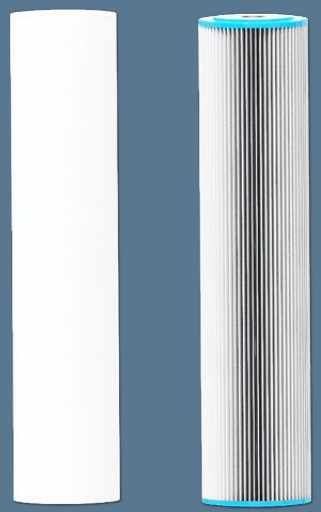
Aqualight® WPS
ULTRAVIOLET WATER PURIFICATION



The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Integrated home system WPS series to safeguard households drinking water. Under sink, wall mounted and floor stand systems flow rates 1.5gpm (5.7 lpm, 0.34m3/hr.) up to 20gpm (75 lpm, 4.5m3/hr.) for residential POU/POE, small business, light commercial. Operation status visible and audible., lamp remaining life reminder.

Nonitored models flow rates 10gpm (38 lpm, 2.3m3/hr.) up to 20gpm (75 lpm, 4.5m3/hr.) for residential POU/POE, small business, light commercial. Ultraviolet intensiity monitoring, lamp remaining life reminder.

Specifications

Model / Under Sink	WPS2511-1G/2	WPS2511-1G/4	WPS2511-3G/2	WPS2511-3G/4
Flow Rates @ 30mJ/cm2	1.5gpm, 5.7lpm, 0.34m3/hr	1.5gpm, 5.7lpm, 0.34m3/hr	3gpm, 11.4lpm, 0.7m3/hr	3gpm, 11.4lpm, 0.7m3/hr
Flow Rates @ 40mJ/cm2	1.1gpm, 4.2lpm, 0.25m3/hr	1.1gpm, 4.2lpm, 0.25m3/hr	2.3gpm, 8.7lpm, 0.52m3/hr	2.3gpm, 8.7lpm, 0.52m3/hr
Inlet / Outlet	3/8″	3/8″	3/8″	3/8″
Dimensions	44*15*42cm (17.3*5.9*16.5 in.)	44*15*42cm (17.3*5.9*16.5 in.)	44*15*42cm (17.3*5.9*16.5 in.)	44*15*42cm (17.3*5.9*16.5 in.)
Filter	Sedimennt Filter, Pleated (or Carbon) Filter, O.D. 2.5″, Length 10″			
Ultraviolet Lamp	GPH287T5L/4-LT, 14 Watts	GPH287T5L/4-LT, 14 Watts	GPH330T5L/4-LT, 19 Watts	GPH330T5L/4-LT, 19 Watts
Quartz Sleeve	QS331	QS331	QS375	QS375
Basic Controller	BAP2011, 110V. / BAP2022, 220V.	BAP4011, 110V. / BAP4022, 220V.	BAP2011, 110V. / BAP2022, 220V.	BAP4011, 110V. / BAP4022, 220V.
Features	Lamp Operating Indicator, Audible Lamp Failure, Optional GDCT-365 Lamp Life Countdown Timer			
Model / Wall Mounted	**WPS11-10G**	**WPS22-13G**	**WPS22-20G**	
Dimensions	58*22*46.5cm (22.8*8.7*18.3 in.)	58*22*72.5cm (22.8*8.7*28.5 in.)	58*22*72.5cm (22.8*8.7*28.5 in.)	
Model / Floor Stand	**WPS11-10GF**	**WPS22-13GF**	**WPS22-20GF**	
Dimensions	58*22*59.2cm (22.8*8.7*23.3 in.)	58*22*83.2cm (22.8*8.7*32.8 in.)	58*22*83.2cm (22.8*8.7*32.8 in.)	
Advanced Controller	Part No. BAP100365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)			
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact			
Monitored / Wall Mounted	**WPS11-10GMS**	**WPS22-13GMS**	**WPS22-20GMS**	
Dimensions	58*22*46.5cm (22.8*8.7*18.3 in.)	58*22*72.5cm (22.8*8.7*28.5 in.)	58*22*72.5cm (22.8*8.7*28.5 in.)	
Monitored / Floor Stand	**WPS11-10GMSF**	**WPS22-13GMSF**	**WPS22-20GMSF**	
Dimensions	58*22*59.2cm (22.8*8.7*23.3 in.)	58*22*83.2cm (22.8*8.7*32.8 in.)	58*22*83.2cm (22.8*8.7*32.8 in.)	
Monitored Controller	Part No. BAP100365MS, Universal Voltage100V.-250V./50-60Hz., 24*9.5*5cm (9.5*3.7*2 in.)			
Sensor	Part No. GDS254NM15-V, RJ45 Connection, SS316			
Features	Lamp Operating Indicator, Audible Lamp Failure, Ultraviolet Intensity Monitoring, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact			
Flow Rates @ 30mJ/cm2	10gpm, 38lpm, 2.3m3/hr	13gpm, 50lpm, 3m3/hr	20gpm, 75lpm, 4.5m3/hr	
Flow Rates @ 40mJ/cm2	7.5gpm,28.4lpm, 1.7m3/hr	9.8gpm, 37.1lpm, 2.23m3/hr	15gpm, 56.8lpm, 3.4m3/hr	
Inlet / Outlet	1″	1″	1″	
Filter	Sedimennt Filter, Pleated (or Carbon) Filter, O.D. 4.5″, Length 10″	Sedimennt Filter, Pleated (or Carbon) Filter, O.D. 4.5″, Length 20″	Sedimennt Filter, Pleated (or Carbon) Filter, O.D. 4.5″, Length 20″	
Ultraviolet Lamp	GHO310T5L/4-LT, 35 Watts	GHO422T5L/4-LT, 40 Watts	GHO512T5L/4-LT, 50 Watts	
Quartz Sleeve	QS340	QS452	QS542	

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

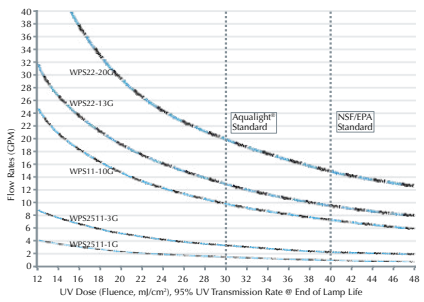
General

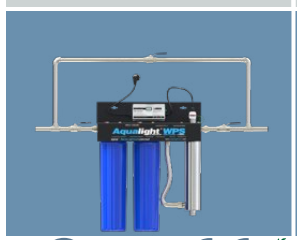
- SS304 Construction Material (SS316 as Request)
- 4-Log (99.99%) Reduction in Bacteria, Viruses and Protozoan Cysts
- Horizontal Installation

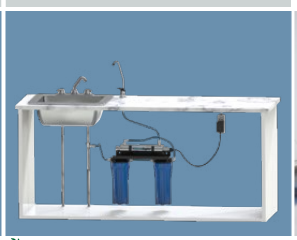
Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

Dose







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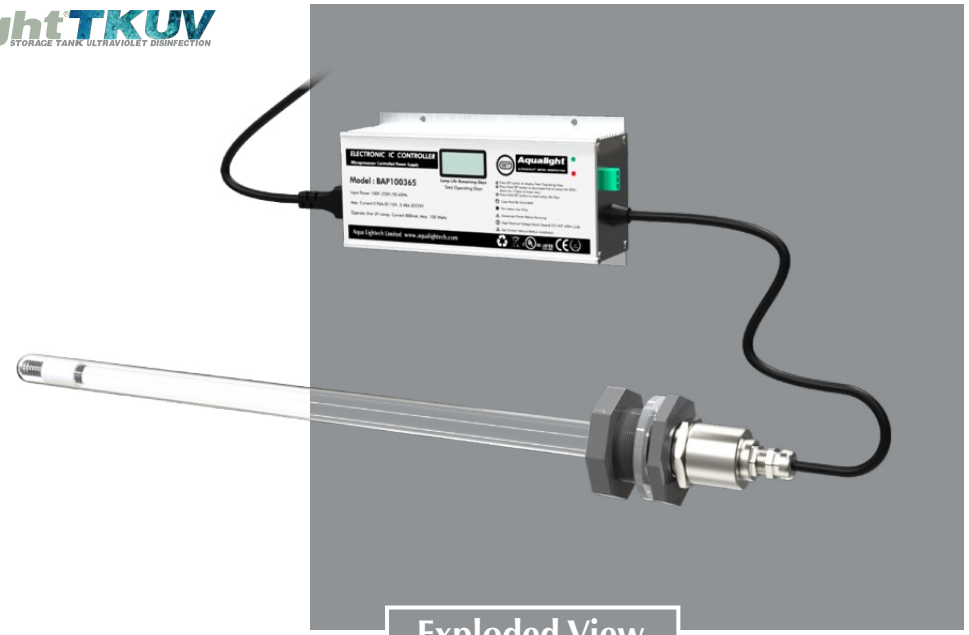
Aqualight TKUV STORAGE TANK ULTRAVIOLET DISINFECTION

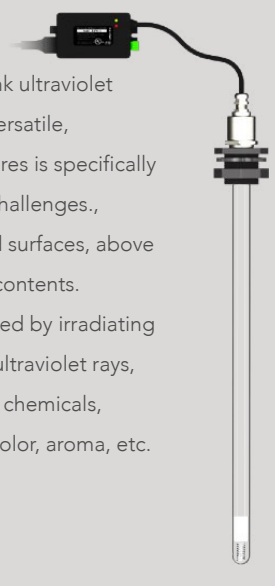


Exploded View

The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Liquid storage tanks present unique challenges regarding disinfection and the maintaining of a sterile environment for their contents. The air space above the liquid is an ideal environment to promote the growth of bacteria, mold and other microorganisms, leading to the contamination of the stored iquid.

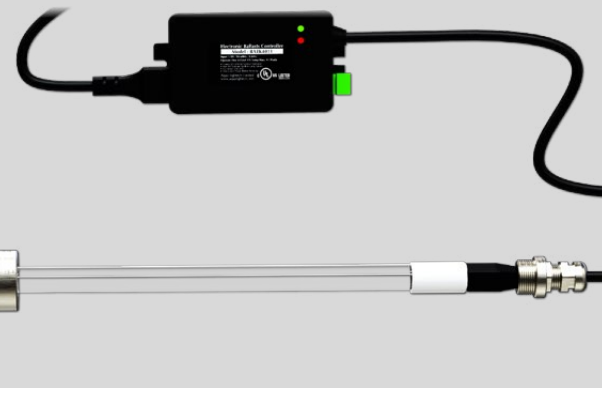


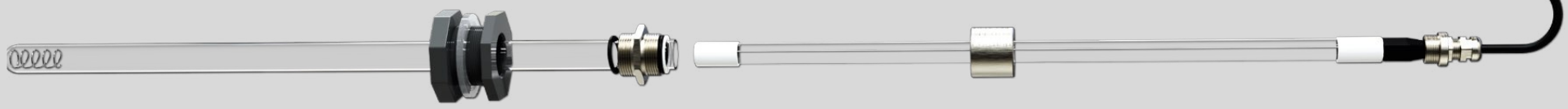
TKUV series storage tank ultraviolet disinfection systems are versatile, germicidal ultraviolet fixtures is specifically designed to meet these challenges., disinfect the air space and surfaces, above the liquid, and the liquid contents. Disinfection is accomplished by irradiating contents with germicidal ultraviolet rays, without the use of heat or chemicals, which could affect taste, color, aroma, etc.

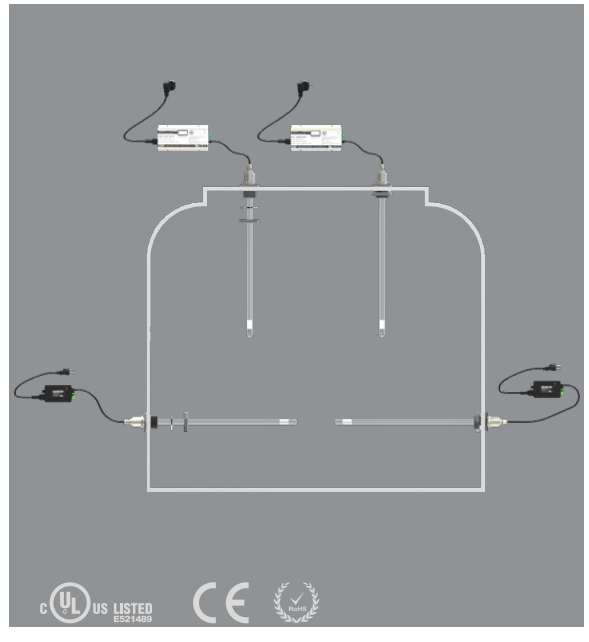
Specifications

Model	TKUV28	TKUV39	TKUV28T	TKUV39T	TKUV80T	TKUV100T
Insertion Length	535mm (21 in.)	890mm (35 in.)	535mm (21 in.)	890mm (35 in.)	890mm (35 in.)	1082mm (43 in.)
Ultraviolet Lamp	GPH505T5L/4-LT, 28 Watts	G36T5L/4-LT, 39 Watts	GPH505T5L/4-LT, 28 Watts	G36T5L/4-LT, 39 Watts	GHO36T5L/4-LT, 80 Watts	GHO1052T5L/4-LT, 100 Watts
Quartz Sleeve	QS535	QS890	QS535	QS890	QS890	QS1082
Controller	Part# BATK4011, 110V. / BATK4022, 220V. 6.5*4.5*2.8cm (2.6*1.8*1.1 in.)		Part# BAP400365(TK), Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)		Part# BAP100365(TK), Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)	
Features	Lamp Operating Indicator, Audible Lamp Failure, Optional GDCT-365 Lamp Life Countdown Timer		Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact			

▸ Lamp Rated Life 9,000 hours

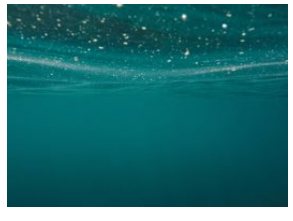


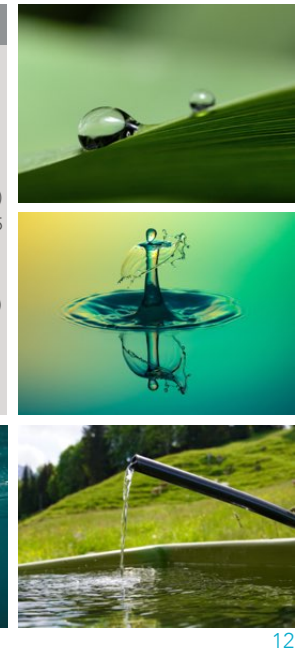




Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104℉)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

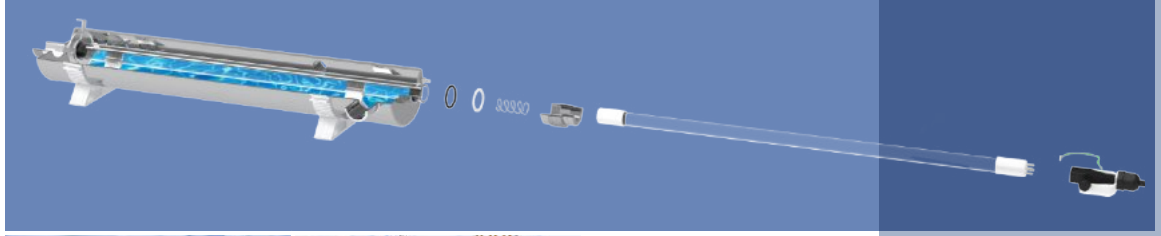




The PMTOC reduction systems are designed specifically for the reduction of total organic carbon (TOC) levels with integrate electric cabinet. These systems are designed with shorter wavelength UV lamps emitting their spectral output at 185nm. These "shorter" wavelength lamps emit more energy than standard 254nm lamps producing hydroxyl free radicals (OH) which is turn oxidizes most organics into carbon dioxide (CO2) and water (H2O). All LTOC reduction systems produce UV dosages in excess 120mJ/cm2 at the end of lamp life .

The PMTOC systems are designed specifically for the treatment of ultrapure waters such as those found in the production of semiconductors and other processes requiring water with extremely low levels TOC. All TOC reduction systems produce UV dosages in excess 120mJ/cm2 at the end of lamp life. Flow rates 1gpm (3.8 lpm, 0.25m3/hr.) up to 10gpm (38 lpm, 2.3m3/hr.) for light industrial applications, lamp remaining life reminder.

Exploded View

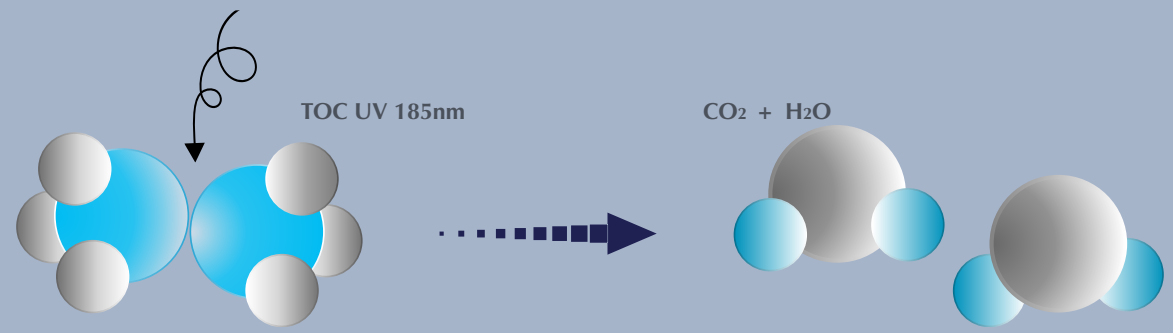


Aqua Lightech Limited www.aqualightech.com

Specifications

Model	PMTOC-1	PMTOC-3	PMTOC-6	PMTOC-8	PMTOC-10
Flow Rates @ 120mJ/cm2	1gpm, 3.8lpm, 0.25m3/hr	3gpm, 11.5lpm, 0.7m3/hr	6gpm, 23lpm, 1.4m3/hr	8gpm, 30lpm, 1.8m3/hr	10gpm, 38lpm, 2.3m3/hr
Inlet/Outlet	1/2"	1/2"	3/4"	3/4"	3/4"
Dimensions	43*6.5cm (17*2.5 in.)	95*6.5cm (37.4*2.5 in.)	60*8.9cm (23.6*3.5 in.)	79*8.9cm (31.1*3.5 in.)	95*8.9cm (37.4*3.5 in.)
Ultraviolet Lmap	GPH330T5VH-LT, 28 Watts, 425mA, 185nm	G36T5VH-LT, 39 Watts, 425mA, 185nm	GHO512T5VH-LT, 50 Watts, 800mA, 185nm	GHO702T5VH-LT, 65 Watts, 800mA, 185nm	GHO36T5VH-LT, 80 Watts, 800mA, 185nm
Quartz Sleeve	QS375	QS890	QS542	QS732	QS890
Advanced Controller	Part No. BAP40365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)		Part No. BAP100365, Universal Voltage100V.-250V./50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)		
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact				

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

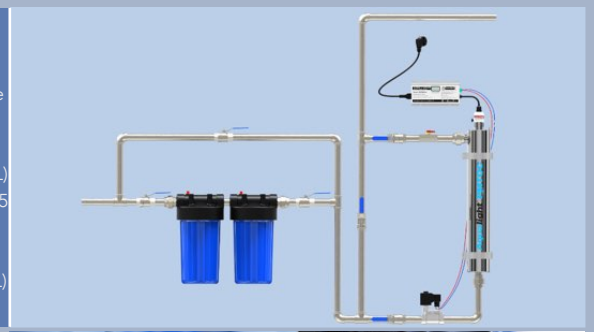


General

- SS304 Construction Material (SS316 as Request)
- 4-Log (99.99%) Reduction in Bacteria, Viruses and Protozoan Cysts
- Vertical Installation (recommend) or Horizontal

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104℉)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%



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Aqualight® SLT
ULTRAVIOLET WATER DISINFECTION

The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Integrate electric cabinet systems SLT series models SLT12 - SLT150 flow rates 12gpm (3m3/hr.) up to 150gpm (34m3/hr.) for commercial, community, Institutional and industrial applications.

Specifications

Model	SLT12	SLT24	SLT36	SLT50	SLT80	SLT100	SLT125	SLT150
Flow Rates @ 30mJ/cm2	12gpm, 3m3/hr	24gpm, 6m3/hr	36gpm, 8m3/hr	50gpm, 11m3/hr	80gpm, 18m3/hr	100gpm, 23m3/hr	125gpm, 28m3/hr	150gpm, 34m3/hr
Flow Rates @ 40mJ/cm2	9gpm, 2m3/hr	18gpm, 4.1m3/hr	27gpm, 6.1m3/hr	38gpm, 8.6m3/hr	60gpm, 14m3/hr	75gpm, 17m3/hr	93gpm, 21m3/hr	113gpm, 26m3/hr
Inlet / Outlet	1″	1″	11/2″	11/2″	2″	3″	3″	3″
Dimensions	93*18*30cm(36.6*7*11.8 in.)	93*18*30cm(36.6*7*11.8 in.)	93*25*35cm(36.6*9.8*13.7 in.)	93*25*35cm(36.6*9.8*13.7 in.)	93*25*36cm(36.6*9.8*14.2 in.)	93*30*42cm(36.6*11.8*16.5 in.)	93*39*48cm(36.6*15.4*18.9 in.)	93*39*48cm(36.6*15.4*18.9 in.)
Ultraviolet Lamp	Part# G36T5L/4-LT, 39 Watts, 425mA, 254nm			Part# GHO36T5L/4-LT, 80 Watts, 800mA, 254nm				
Quartz Sleeve	Part# QS900-BO, 900mm, Both Sides Open							
Ballasts	Par# GDB42540L2, 110V.-240V./50-60Hz.			Par# GDB80095L2, 110V.-240V./50-60Hz.				
Number of Lamp/ Sleeve/Ballasts	1	2	3	2	3	4	5	6
Timer Monitor	Lamp Operating Hours Monitor, Part No. GDT-9000							
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Operating Hours up to 9000hr, Total Running Days, Dry Contact							
Sensor	Optional, Part No. GDS254NM20-V, SS316							

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

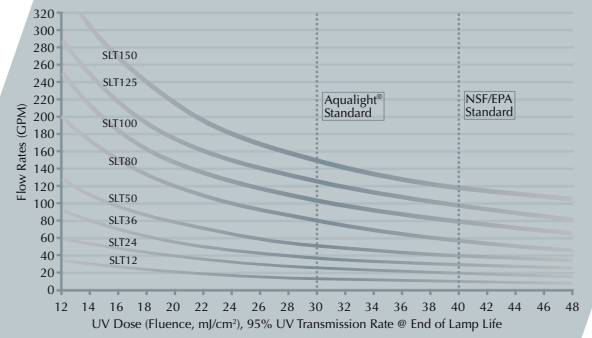
General

- SS304 Construction Material (SS316 as Request)
- 4-Log (99.99%) Reduction in Bacteria, Viruses and Protozoan Cysts
- Optional Sanitary Connections

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

Dose



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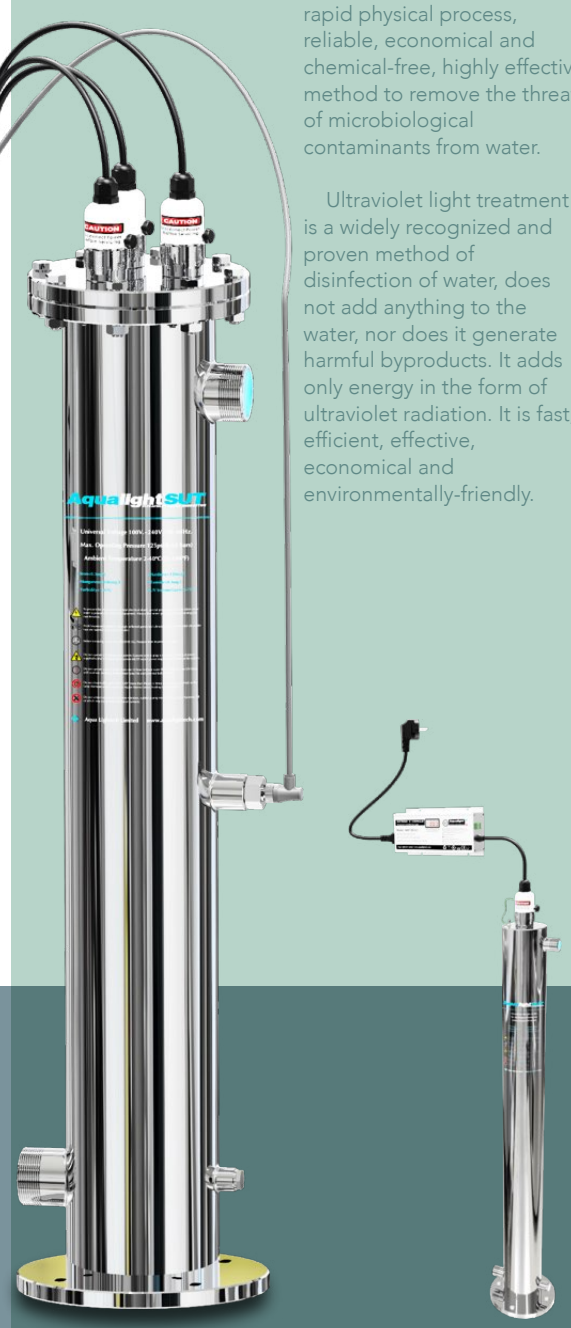
Aqualight® SUT
ULTRAVIOLET WATER DISINFECTION

The SUT series systems feature a vertical reactor designed to maximize installation flexibility with minimal footprint. SUT series systems with separate control panel, models SUT12 - SUT150 flow rates 12gpm (3m3/hr.) up to 150gpm (34m3/hr.) for commercial, community, Institutional and industrial applications.



The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Specifications

Model	SUT12C	SUT24C	SUT12D	SUT24D	SUT36D	SUT50D	SUT80D	SUT100D	SUT125D	SUT150D
Flow Rates @ 30mJ/cm2	12gpm, 3m3/hr	24gpm, 6m3/hr	12gpm, 3m3/hr	24gpm, 6m3/hr	36gpm, 8m3/hr	50gpm, 11m3/hr	80gpm, 18m3/hr	100gpm, 23m3/hr	125gpm, 28m3/hr	150gpm, 34m3/hr
Flow Rates @ 40mJ/cm2	9gpm, 2m3/hr	18gpm, 4.1m3/hr	9gpm, 2m3/hr	18gpm, 4.1m3/hr	27gpm, 6.1m3/hr	38gpm, 8.6m3/hr	60gpm, 14m3/hr	75gpm, 17m3/hr	93gpm, 21m3/hr	113gpm, 26m3/hr
Inlet / Outlet	1"	1"	1"	1"	11/2"	11/2"	2"	3"	3"	3"
Dimensions (H* Base ø)	93*15.5cm (36.6*6.1 in.)	93*15.5cm (36.6*6.1 in.)	93*19cm (36.6*7.5 in.)	93*19cm (36.6*7.5 in.)	93*22cm (36.6*8.7 in.)	93*22cm (36.6*8.7 in.)	93*22cm (36.6*8.7 in.)	93*25cm (36.6*9.9 in.)	93*30cm (36.6*11.8 in.)	93*30cm (36.6*11.8 in.)
Control Panel Dimensions	X	X	30*18*40cm(11.8*7*15.7 in.)					40*20*50cm(15.7*7.8*19.6 in.)		
Ultraviolet Lamp	Part# G36T5L/4-LT, 39 Watts, 425mA, 254nm	Part# GHO36T5L/4-LT, 80 Watts, 800mA, 254nm	Part# G36T5L/4-LT, 39 Watts, 425mA, 254nm			Part# GHO36T5L/4-LT, 80 Watts, 800mA, 254nm				
Quartz Sleeve	Part# QS890, 890mm, Domed, Single Open									
Ballasts	Part# BAP40365, 110V.-240V./50-60Hz.	Part# BAP100365, 110V.-240V./50-60Hz.	Part# GDB42540L2, 110V.-240V./50-60Hz.			Part# GDB80095L2, 110V.-240V./50-60Hz.				
Number of Lamp/Sleeve/ Ballasts	1	1	1	2	3	2	3	4	5	6
Timer Monitor	Controller Build-in		Lamp Operating Hours Monitor, Part No. GDT-9000							
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Life 365 Days Countdown, Total Running Days, Dry Contact		Lamp Operating Indicator, Audible Lamp Failure, Lamp Operating Hours up to 9000hr, Total Running Days, Dry Contact							
Sensor	Optional, Part No. GDS254NM15-V, SS316 with monitored controller BAP40365MS/BAP100365MS		Optional, Part No. GDS254NM20-V, SS316							

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

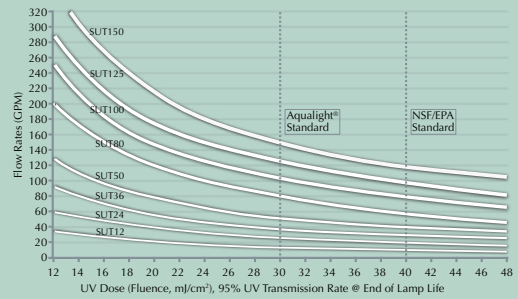
General

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

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

Dose



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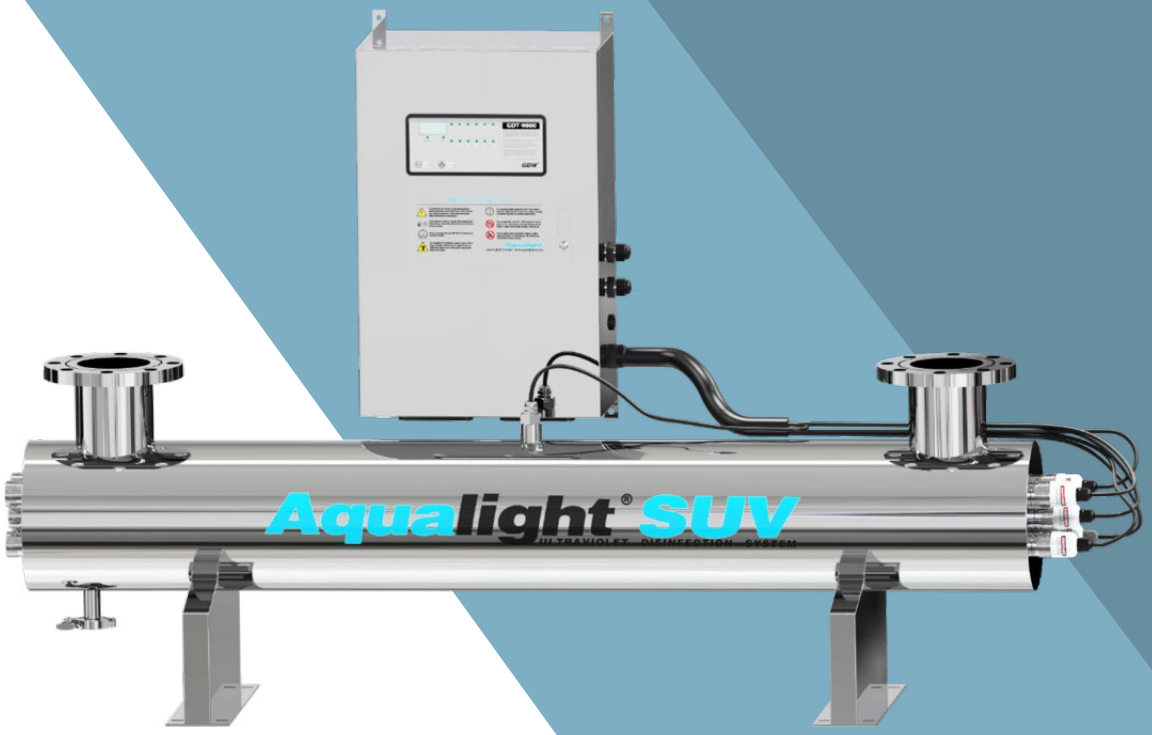
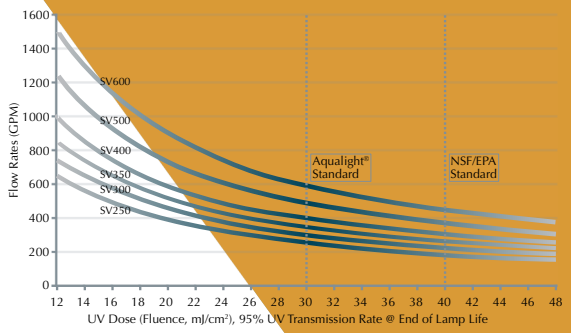
Aqualight® SUV
ULTRAVIOLET WATER DISINFECTION



The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

SUV serties systems with separate control panel, models SV12 - SV600 flow rates 12gpm (3m3/hr.) up to 600gpm (136m3/hr.) for commercial, community, Institutional and industrial applications.



Specifications

Model	SV12	SV24	SV36	SV50	SV80	SV100	SV125	SV150	SV200	SV250	SV300	SV350	SV400	SV500	SV600
Flow Rates @ 30mJ/cm2, gpm(m3/hr)	12 (3)	24 (6)	36 (8)	50 (11)	80 (18)	100 (23)	125 (28)	150 (34)	200 (45)	250 (57)	300 (68)	350 (80)	400 (91)	500 (115)	600 (136)
Flow Rates @ 40mJ/cm2, gpm(m3/hr)	9 (2)	18 (4.1)	27 (6.1)	38 (8.6)	60 (14)	75 (17)	93 (21)	113 (26)	150 (34)	188 (43)	225 (51)	263 (60)	300 (68)	375 (85)	450 (102)
Inlet / Outlet	1"	1"	11/2"	11/2"	2"	3"	3"	3"	4"	4"	4"	4"	6"	6"	6"
Reaction Chamber Dimensions	93*18*30cm(36.6*7*11.8 in.)	93*18*30cm(36.6*7*11.8 in.)	93*25*35cm(36.6*9.8*13.7 in.)	93*25*35cm(36.6*9.8*13.7 in.)	93*25*36cm(36.6*9.8*14.2 in.)	93*30*42cm(36.6*11.8*16.5 in.)	93*39*48cm(36.6*15.4*18.9 in.)	93*39*48cm(36.6*15.4*18.9 in.)	159*39*50cm(62.6*15.4*19.7 in.)	159*39*50cm(62.6*15.4*19.7 in.)	159*39*50cm(62.6*15.4*19.7 in.)	159*39*50cm(62.6*15.4*19.7 in.)	159*39*50cm(62.6*15.4*19.7 in.)	159*39*56cm(62.6*15.4*22 in.)	159*39*56cm(62.6*15.4*22 in.)
Control Panel Dimensions	30*18*40cm(11.8*7*15.7 in.)	30*18*40cm(11.8*7*15.7 in.)	30*18*40cm(11.8*7*15.7 in.)	30*18*40cm(11.8*7*15.7 in.)	30*18*40cm(11.8*7*15.7 in.)	40*20*50cm(15.7*7.8*19.6 in.)	40*20*50cm(15.7*7.8*19.6 in.)	40*20*50cm(15.7*7.8*19.6 in.)	45*19*60cm(17.7*7.4*23.6 in.)	45*19*60cm(17.7*7.4*23.6 in.)	45*19*60cm(17.7*7.4*23.6 in.)	45*19*60cm(17.7*7.4*23.6 in.)	60*19*70cm(23.6*7.4*27.5 in.)	60*19*70cm(23.6*7.4*27.5 in.)	60*19*70cm(23.6*7.4*27.5 in.)
Ultraviolet Lamp	Part# G36T5L/4-LT, 39 Watts, 425mA, 254nm			Part# GHO36T5L/4-LT, 80 Watts, 800mA, 254nm					Part# GHO64T5L/4-LT, 155 Watts, 800mA, 254nm						
Quartz Sleeve	Part# QS900-BO, 900mm, Both Sides Open								Part# QS1575-BO, 1575mm, Both Sides Open						
Ballasts	Par# GDB42540L2, 110V.-240V./ 50-60Hz.			Part# GDB80095L2, 110V.-240V./50-60Hz.					Part# GDB800155L2, 110V.-240V./50-60Hz.						
Number of Lamp/ Sleeve/ Ballasts	1	2	3	2	3	4	5	6	4	5	6	7	8	10	12
Timer Monitor	Lamp Operating Hours Monitor, Part No. GDT-9000														
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Operating Hours up to 9000hr, Total Running Days, Dry Contact														
Sensor	Optional, Part No. GDS254NM20-V														

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

Exploded View

General

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

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

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CE

RoHS

Aqualight® SWP
ULTRAVIOLET POOL PURIFICATION

Aqualight® ultraviolet pool systems are leading the way to better, safer water. Their unique, forward-thinking design employs high output amalgam technology for better chloramine control and inactivation of chlorine resistant bacteria. Aqualight® SWP series pool systems are designed for residential/commercial pools and spa through lower cost of operation and a longer lasting system.

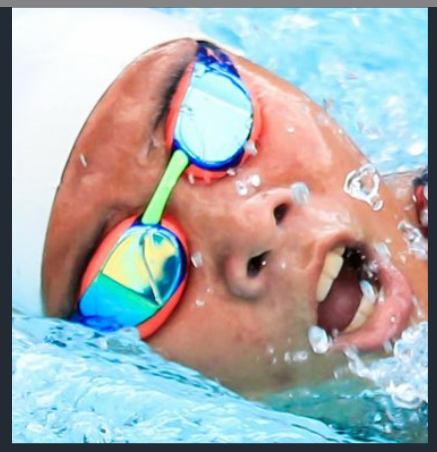
High output and amalgam lamps used in the Aqualight® SWP series are proven to be the most effective lamps used in the aquatic industry.

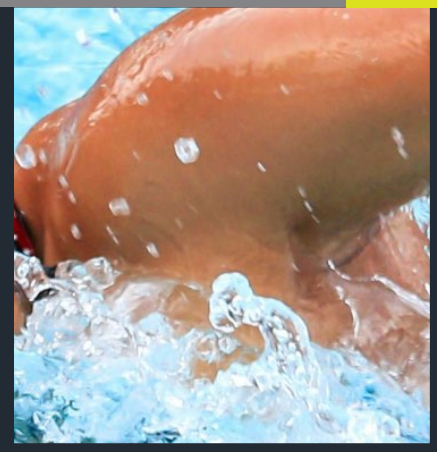
- Eliminate pathogens unaffected by chlorine
- Help elimination of eye and skin irritation
- Help prevention of unpleasant chlorine smells
- Chlorine in pool can be reduced to minimum
- Low electrical power consumption
- Modular design reduces stocking requirements

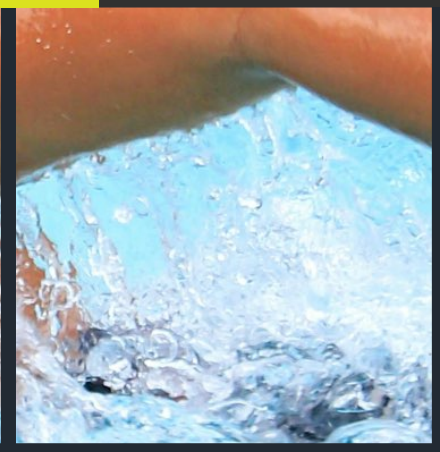
Specifications

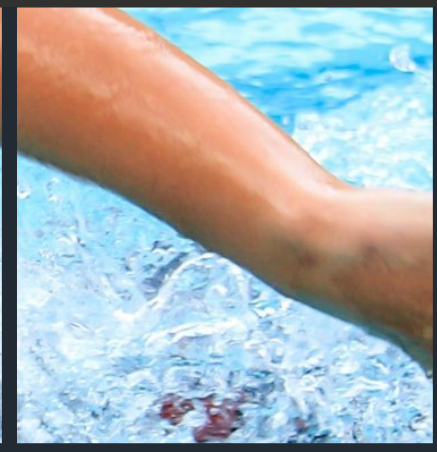
Model	SWP25	SWP50	SWP70
Pool Volume	6,000 Gal. (22,700 L)	16,000 Gal. (60,560 L)	25000 Gal. (94,600 L)
Flow Rates @ 30mJ/cm2	25gpm, 5.7m3/hr.	50gpm, 11m3/hr.	70gpm, 16m3/hr.
Inlet / Outlet	2"	2"	2"
Ultraviolet Lamp	1pc*GHO36T5L/4-LT, 80 Watts	2pcs*GHO36T5L/4-LT, 160Watts	2pcs*GPHA843T5L/4-LT, 210 Watts
Quartz Sleeve	1pc*QS900-BO	2pcs*QS900-BO	2pcs*QS900-BO
Ballast	1pc*GDB80095L2, 110V.-240V./ 50-60Hz.	2pcs*GDB80095L2, 110V.-240V./ 50-60Hz.	2pcs*GDB1200105L2, 110V.-240V./50-60Hz.
Timer Monitor	Part No. GDT-9000, Lamp Operating Indicator, Audible Lamp Failure, Lamp Operating Hours up to 9000hr, Total Running Days, Dry Contact		
Optional	Sensor, Part No. GDS254NM20-V		
Reaction Chamber Dimensions	36.6*7*11.8 inch (93*18*30 cm)		
Control Panel Dimensions	11.8*7*15.7 inch (30*18*40 cm)		

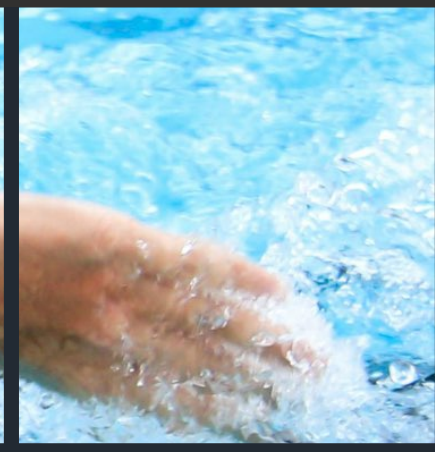
▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃











LOWER COST OF POOL OWNERSHIP

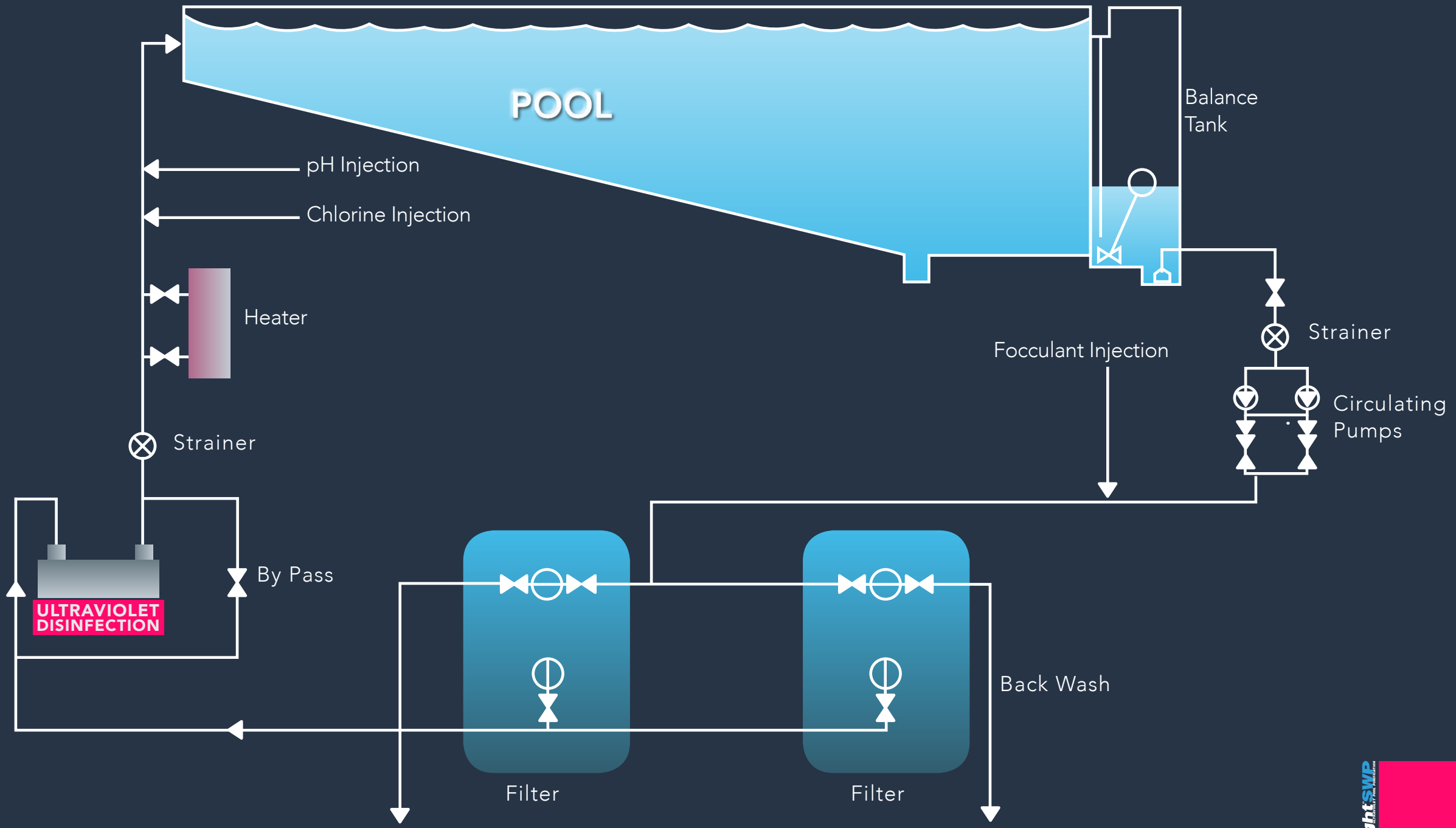
	Typical	Aqualight SWP	Reduction
Residual Chlorine	3-4ppm	0.5ppm	80-85%
Chlorine Shock	Every 1-2 weeks	Every 2-3 months	80-90%
Stabilizer	30-50ppm	3-8ppm	70-90%
pH Adjustment	Frequent	Rare	75-85%
Algaecide	Varies	Never	99-100%

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

- SS304 Construction Material (SS316 as Request)
- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron< 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

ULTRAVIOLET

Flow Diagram for Pool



Aqualight® SLC
ULTRAVIOLET WATER DISINFECTION

The ultraviolet (UV-C rays, 253.7nm) water disinfection treatment is an extremely rapid physical process, reliable, economical and chemical-free, highly effective method to remove the threat of microbiological contaminants from water.

Ultraviolet light treatment is a widely recognized and proven method of disinfection of water, does not add anything to the water, nor does it generate harmful byproducts. It adds only energy in the form of ultraviolet radiation. It is fast, efficient, effective, economical and environmentally-friendly.

Models SLC200 - SLC600 flow rates 200gpm (45m3/hr.) up to 600gpm (136m3/hr.) for commercial, community, Institutional and industrial applications

Specifications

Model	SLC200	SLC250	SLC300	SLC350	SLC400	SLC500	SLC600
Flow Rates @ 30mJ/cm2	200gpm (45m3/hr)	250gpm (57m3/hr)	300gpm (68m3/hr)	350gpm (80m3/hr)	400gpm (91m3/hr)	500gpm (115m3/hr)	600gpm (136m3/hr)
Flow Rates @ 40mJ/cm2	150gpm (34m3/hr)	188gpm (43m3/hr)	225gpm (51m3/hr)	263gpm (60m3/hr)	300gpm (68m3/hr)	375gpm (85m3/hr)	450gpm (102m3/hr)
Inlet / Outlet	4"	4"	4"	4"	6"	6"	6"
Reaction Chamber Dimensions	173*27.5*69cm (68.1*10.8*27.2 in.)	173*27.5*69cm (68.1*10.8*27.2 in.)	173*27.5*69cm (68.1*10.8*27.2 in.)	173*27.5*69cm (68.1*10.8*27.2 in.)	173*27.5*69cm (68.1*10.8*27.2 in.)	173*27.5*69cm (68.1*10.8*27.2 in.)	173*33*69cm(68.1*13*27.2 in.)
Ultraviolet Lamp	Part# GHO64T5L/4-LT, 155 Watts, 800mA, 254nm						
Quartz Sleeve	Part# QS1575-BO, 1575mm, Both Sides Open						
Ballasts	Part# GDB800155L2, 110V.-240V./50-60Hz						
Number of Lamp/ Sleeve/Ballasts	4	5	6	7	8	10	12
Timer Monitor	Lamp Operating Hours Monitor, Part No. GDT-9000						
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Operating Hours up to 9000hr, Total Running Days, Dry Contact						
Sensor	Optional, Part No. GDS254NM20-V						

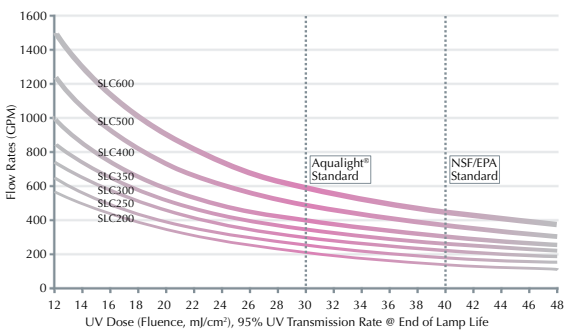
▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃

General

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

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104℉)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%



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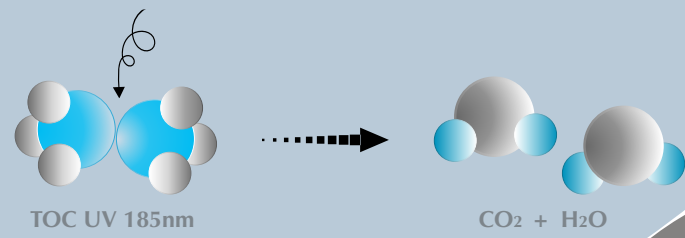
Aqualight LTOC
ULTRAVIOLET TOC REDUCTION

The LTOC reduction systems are designed specifically for the reduction of total organic carbon (TOC) levels with integrate electric cabinet. These systems are designed with shorter wavelength UV lamps emitting their spectral output at 185nm. These "shorter" wavelength lamps emit more energy than standard 254nm lamps producing hydroxyl free radicals (OH) which is turn oxidizes most organics into carbon dioxide (CO2) and water (H2O). All LTOC reduction systems produce UV dosages in excess 120mJ/cm2 at the end of lamp life .

Specifications

Model	LTOC3	LTOC6	LTOC9	LTOC12	LTOC20	LTOC25	LTOC30	LTOC35
Flow Rates @ 120mJ/cm2	3gpm (0.68m3/hr)	6gpm (1.4m3/hr)	9gpm (2.1m3/hr)	12gpm (3.0m3/hr)	20gpm (4.5m3/hr)	25gpm (5.7m3/hr)	30gpm (6.8m3/hr)	35gpm (8m3/hr)
Inlet / Outlet	1/2"	1/2"	3/4"	3/4"	1"	1"	11/2"	11/2"
Reaction Chamber Dimensions	93*18*30cm(36.6*7*11.8 in.)	93*18*30cm(36.6*7*11.8 in.)	93*25*35cm(36.6*9.8*13.7 in.)	93*25*35cm(36.6*9.8*13.7 in.)	93*25*36cm(36.6*9.8*14.2 in.)	93*30*42cm(36.6*11.8*16.5 in.)	93*39*48cm(36.6*15.4*18.9 in.)	93*39*48cm(36.6*15.4*18.9 in.)
Ultraviolet Lamp	Part# G36T5VH-LT, 39 Watts, 425mA, 185nm			Part# GHO36T5VH-LT, 80 Watts, 800mA, 185nm				
Quartz Sleeve	Part# QS900-BO, 900mm, Both Sides Open			Part# QS900-BO, 900mm, Both Sides Open				
Ballasts	Par# GDB42540L2, 110V.-240V./50-60Hz.			Par# GDB80095L2, 110V.-240V./50-60Hz.				
Number of Lamp/ Sleeve/Ballasts	1	2	3	2	3	4	5	6
Timer Monitor	Lamp Operating Hours Monitor, Part No. GDT-9000							
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Operating Hours up to 9000hr, Total Running Days, Dry Contact							

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20℃



General

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

Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104℉)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

c UL us LISTED E521489 CE RoHS

The PTOC reduction systems are designed specifically for the reduction of total organic carbon (TOC) levels with integrate electric cabinet. These systems are designed with shorter wavelength UV lamps emitting their spectral output at 185nm. These "shorter" wavelength lamps emit more energy than standard 254nm lamps producing hydroxyl free radicals (OH) which is turn oxidizes most organics into carbon dioxide (CO2) and water (H2O). All PTOC reduction systems produce UV dosages in excess 120mJ/ cm2 at the end of lamp life .

General

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

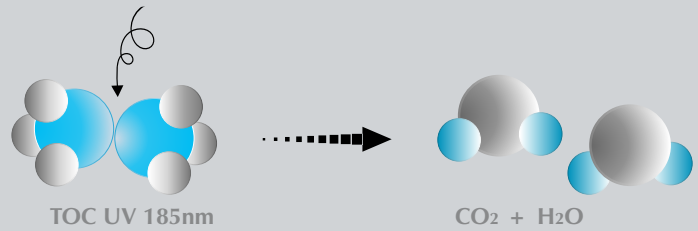
Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104˚F)
- Iron < 0.3 ppm (0.3mg/L)
- Hardness < 7 gpg (120 mg/L)
- Manganese < 0.05 ppm (0.05 mg/L)
- Turbidity < 1NTU
- Tannins < 0.1 ppm (0.3 mg/L)
- UV Transmittance >75%

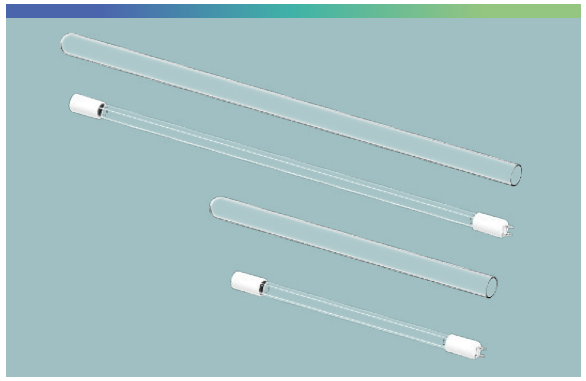
Specifications

Model	PTOC12	PTOC20	PTOC25	PTOC30	PTOC35	PTOC50	PTOC60	PTOC75	PTOC85	PTOC100	PTOC125	PTOC150
Flow Rates @ 120mJ/cm^2	12gpm (3.0m^3/hr)	20gpm (4.5m^3/hr)	25gpm (5.7m^3/hr)	30gpm (6.8m^3/hr)	35gpm (8m^3/hr)	50gpm (11m^3/hr)	60gpm (14m^3/hr)	75gpm (17m^3/hr)	85gpm (19m^3/hr)	100gpm (23m^3/hr)	125gpm (28m^3/hr)	150gpm (34m^3/hr)
Inlet / Outlet	¾″	1″	1″	1½″	1½″	1½″	2″	2″	2″	3″	3″	3″
Reaction Chamber Dimensions	93*25*35cm (36.6*9.8*13.7 in.)	93*25*36cm (36.6*9.8*14.2 in.)	93*30*42cm (36.6*11.8*16.5 in.)	93*39*48cm (36.6*15.4*18.9 in.)	93*39*48cm (36.6*15.4*18.9 in.)	159*39*50cm (62.6*15.4*19.7 in.)	159*39*50cm (62.6*15.4*19.7 in.)	159*39*50cm (62.6*15.4*19.7 in.)	159*39*50cm (62.6*15.4*19.7 in.)	159*39*50cm (62.6*15.4*19.7 in.)	159*39*56cm(62.6*15.4*22 in.)	159*39*56cm(62.6*15.4*22 in.)
Control Panel Dimensions	30*18*40cm (11.8*7*15.7 in.)	30*18*40cm (11.8*7*15.7 in.)	40*20*50cm (15.7*7.8*19.6 in.)	40*20*50cm (15.7*7.8*19.6 in.)	40*20*50cm (15.7*7.8*19.6 in.)	45*19*60cm (17.7*7.4*23.6 in.)	45*19*60cm (17.7*7.4*23.6 in.)	45*19*60cm (17.7*7.4*23.6 in.)	45*19*60cm (17.7*7.4*23.6 in.)	60*19*70cm (23.6*7.4*27.5 in.)	60*19*70cm (23.6*7.4*27.5 in.)	60*19*70cm (23.6*7.4*27.5 in.)
Ultraviolet Lamp	Part# GHO36T5VH-LT, 80 Watts, 800mA, 185nm					Part# GHO64T5VH-LT, 155 Watts, 800mA, 185nm						
Quartz Sleeve	Part# QS900-BO, 900mm, Both Sides Open					Part# QS1575-BO, 1575mm, Both Sides Open						
Ballasts	Par# GDB80095L2, 110V.-240V./50-60Hz.					Part# GDB800155L2, 110V.-240V./50-60Hz.						
Number of Lamp/Sleeve/ Ballasts	2	3	4	5	6	4	5	6	7	8	10	12
Timer Monitor	Lamp Operating Hours Monitor, Part No. GDT-9000											
Features	Lamp Operating Indicator, Audible Lamp Failure, Lamp Operating Hours up to 9000hr, Total Running Days, Dry Contact											

▸ Flow Rates Stated at 95% UV Transmittance of End of Lamp Life, 20˚C



Ultraviolet Germicidal Lamp and Quartz Sleeve



Ultraviolet radiation in the 200-300 nanometer (nm) range is extremely effective in killing microorganisms such as airborne and surface bacteria, viruses, yeasts and molds.

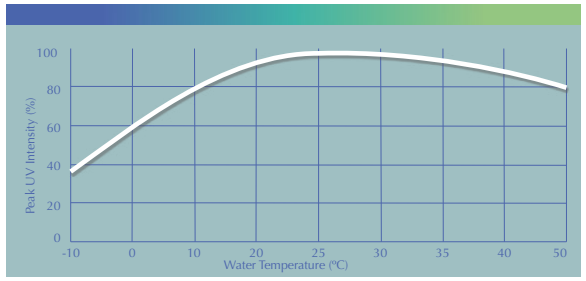
Aqualight® low-pressure, mercury-arc germicidal lamps are specially designed to produce the highest amounts of UV radiation - typically about 90% of the total rated energy is at 253.7nm. This radiation is very close to the peak of the germicidal effectiveness curve of 265nm, the most lethal wavelength to microorganisms. Our germicidal lamps are used extensively in air and water purification applications such as in the food and beverage industry, medical applications, HVAC systems (Heating, Ventilating, and Air Conditioning), pharmaceutical and semiconductor sterilization applications. In addition, they are used in drinking water, waste water and ground water remediation.

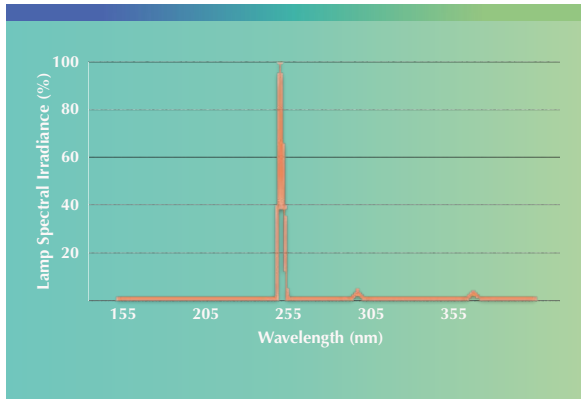
Lamp tube current 800mA High Output (HO) germicidal lamps yield 1/3 to 2/3 more UV output than standard output 425mA lamps of the same length. High Output lamps are available in most of the common lamp lengths in use today. Custom designed lengths can also be supplied. High Output lamps offer the system designer unique opportunities to reduce the number of lamps required to perform the function of the system and possibly reduce the footprint of the system, or increase the efficiency and capacity of an existing system while keeping the same footprint.

Ozone Action : "VH" germicidal lamps generate energy at 185nm in addition to the 253.7nm line. This UV emission produces abundant amounts of ozone in air. Ozone is an extremely active oxidizer. It destroys microorganisms on contact and acts as a deodorizer. One of its primary advantages is that it can be carried by air into places that the UV radiation cannot directly reach.

Advantages of Ultraviolet Radiation:

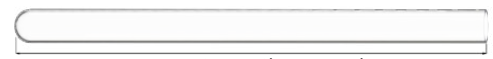
- Environmentally friendly, no dangerous chemicals to handle or store, no problems of overdosing
- Low initial capital cost and reduced operating expenses when compared with other technologies such as chemical processing
- Immediate treatment process, no need for holding tanks, long retention times
- No chemicals added to water supply; no by-products
- No change in taste, odor, pH, conductivity or the general chemistry of the water
- No handling of toxic chemicals, no need for specialized storage requirements
- Simplicity and ease of maintenance, periodic cleaning (if applicable) and annual lamp replacement





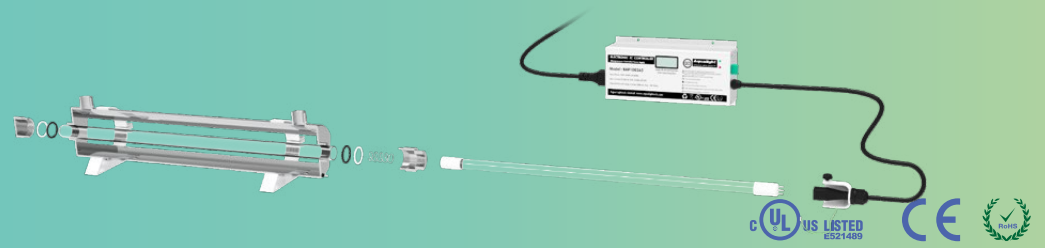
Lamp Part#	Power (watts)	Base Face to Base Face (mm)	Wavelength (nm)	Tube Current (mA)	Quartz Sleeve Part#	OD*ID*Length (mm)
GPH212T5L/4-LT	10	212	254	425	QS245	23*20*245
GPH287T5L/4-LT	14	287	254	425	QS331	23*20*331
GPH330T5L/4-LT	19	330	254	425	QS375	23*20*375
GPH505T5L/4-LT	28	505	254	425	QS535	23*20*535
GPH645T5L/4-LT	32	645	254	425	QS665	23*20*665
G36T5L/4-LT	39	843	254	425	QS890/QS900-BO	23*20*890/900
GHO310T5L/4-LT	35	310	254	800	QS340	23*20*340
GHO422T5L/4-LT	40	422	254	800	QS452	23*20*452
GHO512T5L/4-LT	50	512	254	800	QS542	23*20*542
GHO702T5L/4-LT	65	702	254	800	QS732	23*20*732
GHO36T5L/4-LT	80	843	254	800	QS890/QS900-BO	23*20*890/900
GHO1052T5L/4-LT	100	1052	254	800	QS1082	23*20*1082
GHO64T5L/4-LT	155	1554	254	800	QS1575-BO	23*20*1575
GPH330T5VH-LT	19	330	185	425	QS375	23*20*375
G36T5VH-LT	39	843	185	425	QS890/QS900-BO	23*20*890/900
GHO512T5VH-LT	50	512	185	800	QS542	23*20*542
GHO702T5VH-LT	65	702	185	800	QS732	23*20*732
GHO36T5VH-LT	80	843	185	800	QS890/QS900-BO	23*20*890/900
GHO64T5VH-LT	155	1554	185	800	QS1575-BO	23*20*1575
GPHA843T5/4-LT	105	843	254	1200	QS900-BO	23*20*900
GPHA1554T5/4-LT	190	1554	254	1200	QS1575-BO	23*20*1575
Lamp made by Light Sources, Inc. In Connecticut, USA						
USAL505T5L	27	505	254	425	QS535	535
USAL635T5L	32	635	254	425	QS665	665
USAL843T5L	41	843	254	425	QS890/QS900-BO	890/900
USAL512T5L-HO	55	512	254	800	QS542	542
USAL702T5L-HO	66	702	254	800	QS732	732
USAL846T5L-HO	90	846	254	800	QS890/QS900-BO	890/900
USAL1554T5L-HO	155	1554	254	800	QS1575-BO	1575
T5 lamp tube (O.D. 15mm), 9,000 hours rated life						

Lamp Base Face to Base Face



Quartz Sleeve Length

O.D.-I.D.



Ballasts Controller
UV Intensity Detector

BAP2011

Single voltage 110V ./ 50-60Hz.
Operate one lamp 10 - 20 watts, 425mA

- Lamp operating indicator
- Audible lamp failure

BAP2022

Single voltage 220V ./ 50-60Hz.
Operate one lamp 10 - 20 watts, 425mA

- Lamp operating indicator
- Audible lamp failure

BAP4011

Single voltage 110V ./ 50-60Hz.
Operate one lamp 10 - 40 watts, 425mA

- Lamp operating indicator
- Audible lamp failure

BAP4022

Single voltage 220V ./ 50-60Hz.
Operate one lamp 10 - 40 watts, 425mA

- Lamp operating indicator
- Audible lamp failure

GDCT-365

2pcs "AA" bsattery

Optional timer for BAP4011 and BAP4022

- Lamp life 365 days countdown
- Automatic or connect BAP4011 and BAP4022

BAP40365

Universal voltages 100- 250V ./ 50-60Hz.
Operate one lamp 10 - 40 watts, 425mA

- Lamp operating indicator
- Audible lamp failure
- Lamp life 365 days countdown
- Total running days
- Dry contact

BAP100365

Universal voltages 100- 250V ./ 50-60Hz.
Operate one lamp 30 - 100 watts, 800mA

- Lamp operating indicator
- Audible lamp failure
- Lamp life 365 days countdown
- Total running days
- Dry contact

BAP400365MS

Universal voltages 100- 250V ./ 50-60Hz.
Operate one lamp 10 - 40 watts, 425mA

- Lamp operating indicator
- Audible lamp failure
- Ultraviolet intensity alarm monitoring
- Lamp life 365 days countdown
- Total running days
- Dry contact

BAP100365MS

Universal voltages 100- 250V ./ 50-60Hz.
Operate one lamp 30 - 100 watts, 800mA

- Lamp operating indicator
- Audible lamp failure
- Ultraviolet intensity alarm monitoring
- Lamp life 365 days countdown
- Total running days
- Dry contact

GDS254NM15-V

RJ connection

Ultraviolet 254nm wavelength probe

- Voltage signal interface
- Stainless steel 316L
- ½" port

GDB42540L2

Universal voltages 110- 240V ./ 50-60Hz.
Operate one lamp 10 - 40 watts, 425mA

- Lamp operating indicator
- Audible lamp failure

GDB80095L2

Universal voltages 110- 240V ./ 50-60Hz.
Operate one lamp 35 - 95watts, 800mA

- Lamp operating indicator
- Audible lamp failure

GDB800155L2

Universal voltages 110- 240V ./ 50-60Hz.
Operate one lamp 90 - 155 watts, 800mA

- Lamp operating indicator
- Audible lamp failure

GDT-9000

Universal voltages 100- 250V ./ 50-60Hz.
Operate one lamp 30 - 100 watts, 425mA

- Lamp operating indicator
- Audible lamp failure
- Ultraviolet intensity alarm monitoring
- Lamp life up to 9000hr.
- Total running days
- Dry contact

GDS254NM20-V

Connect (black, brown, blue) to GDT-9000

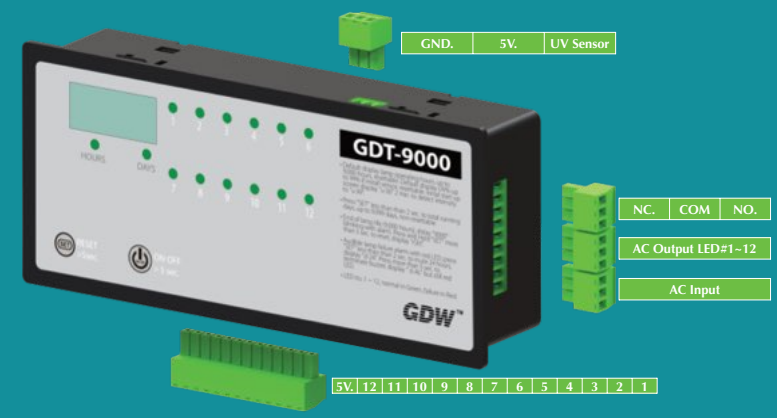
Ultraviolet 254nm wavelength probe

- Voltage signal interface
- Stainless steel 316L
- ¾" port

GDT-9000

Multi Lamps Monitor

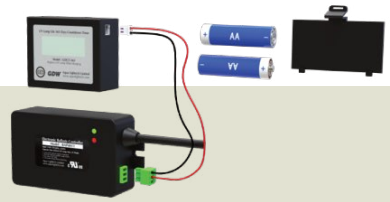
- Input power AC 85~260V., Panel power ON-OFF button
- Basic system default screen display lamp operating hours
- Monitored system default screen display UV intensity in %
- Multi lamps operating indicators, normal in greed LED
- Audible lamp failure in red LED
- Lamp operating hours, resettable
- Total running days, non-resettable
- Lamp life 9000 hours alarm
- Ultraviolet intensity in %, low UV alarm
- Dry contact (N.O. - COM - N.C.)



- Basic system default screen display lamp operating hours (hours LED on and days LED off) , press "SET" button less than 2 seconds to display total running days (hours LED off and days LED on) up to 9999 days (non-resettable). Press "SET" button again or more than 5 seconds will return default screen display
- Monitored system default screen display UV intensity in % (hours LED off and days LED off) , press "SET" button to display lamp operating hours, press "SET" button again to display total running days. Press "SET" button again or more than 5 seconds will return default screen display
- Audible lamp failure in red LED, press "SET" button less than 2 seconds display "d-24" to mute 24 hours, press SET" button more than 5 seconds display "d-AL" to mute buzzer
- End of lamp life (default 9000 hours), screen display "9000" blinking, alarm and relay is activated. Press "SET" button 2 seconds to mute. Change new lamp then press and hold "SET" more than 5 seconds to reset
- Intensity below 50%, alarm will be activated and screen display blinking.

Lamp Life Countdown Timer GDCT-365

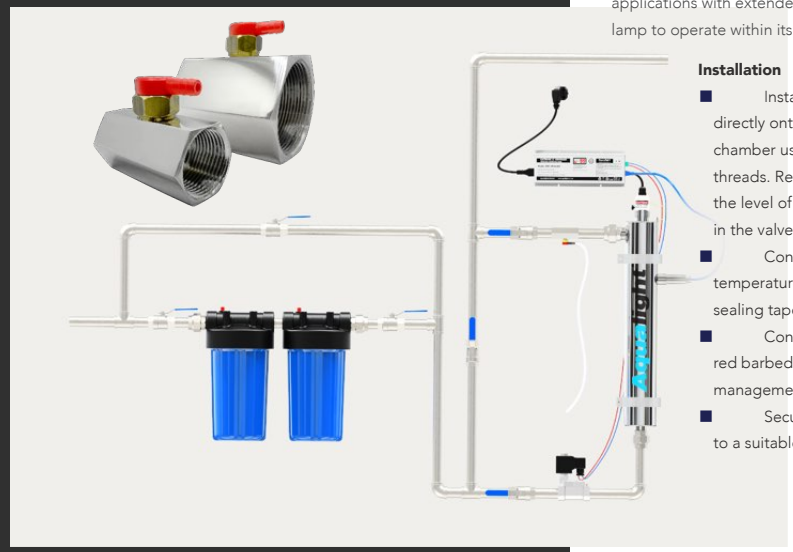
- Input Power : 2pcs AA battery, Dimensions : 66x56x26mm
- Operation : Signal cable connected controller(suit BAP4011 and BAP4022 only), countdown with controller's operation. Otherwise, timer countdown itself.
- 365 Days Count Down : Simple and effective way for the home-owner to be notified when their UV lamp needs to be replaced. Provides 365 days countdown to meet the standard replacement time for your UV lamp with basic controller.
- Audible Alarm : After countdown completion, it sounds an audible alarm to alert the need to replace new UV lamp.
- Blinking Display : After countdown completion, the display notifies that 365 days have expired.
- Count Up Expired Days : Once countdown is expired, the timer counts up to indicate how many days have passed after the 365 days have expired.



- Power on the controller (BAP4011 and BAP 4022) of UV system
- Signal cable (red/black) connect timer with controller (suit BAP4011 and BAP 4022 only), then install battery into timer
- The timer will detect the signal from controller for counting (if none cable connection, timer countdown itself)
- Strongly recommend to change new battery when replace new lamp
- Mute Alarm : press buttonless than 2 seconds
- Reset to 365 Display : press button 5 seconds to reset 365 days when replace new lamp or re-install battery

Temperature Management Valve

Integral temperature management valve for use on systems incorporating high-outt put (800mA) UV lamps. This fully automatic valve is installed on the outlet port of the disinfection system and will discharge a small amount of water to drain when the system reaches a higher temperature. This valve is perfect for applications with extended no-flow conditions, as it allows the lamp to operate within its optimal operating parameters.

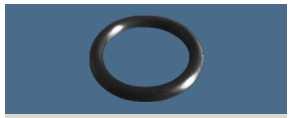


Installation

- Install temperature management valve directly onto output port of the UV reaction chamber using teflon sealing tape to seal the threads. Red barbed plastic fitting must be below the level of outlet to ensure that air is not trapped in the valve.
- Connect the outlet piping to the output of temperature management valve using teflon sealing tape to seal the threads.
- Connect the plastic tubing supplied to the red barbed plastic fitting on the temperature management valve.
- Secure the other end of the plastic tubing to a suitable drain

Part Number	Connection	Operation Temperature	Max. Pressure	Hose Barb
TMV3870-304	1″ Female	56℃ (135˚F)	145psi	ø7mm*2m
TMV4870-304	11/2″ Female	56℃ (135˚F)	145psi	ø7mm*2m
TMV5870-304	2″ Female	56℃ (135˚F)	145psi	ø7mm*2m
TMV3870-304	1″ Female	56℃ (135˚F)	145psi	ø7mm*2m
TMV4870-304	11/2″ Female	56℃ (135˚F)	145psi	ø7mm*2m
TMV5870-304	2″ Female	56℃ (135˚F)	145psi	ø7mm*2m
GDTRV-20-0070	3/8″ Male	Thermal Relief Valve for TMV3870-304, TMV3870-316 , TMV4870--304, MV4870-316		
GDTRV-20-0071	1/2″ Male	Thermal Relief Valve for TMV5870-304 and TMV5870--316		
GDHT-72000	ø7mm	2 Meters Hose Tubing		

Accessories



QSORING265212

O-ring Seal, EPDM

For All UV Systems

QSWASHER3023

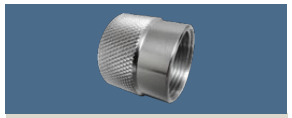
Protection Ring, Teflon

For All UV Systems

GSN4038

Gland Sealing Nut, Aluminum

For All UV Systems



ESN3038

Ended Sealing Nut, Aluminum

For All UV Systems

PSC5115

Mounting Clip, Plastic

For All UV Systems

PSC6320

Mounting Clip, Plastic

For All UV Systems

ALC6320

Mounting Clamp, Aluminum

For All UV Systems

ALC8925

Mounting Clamp, Aluminum

For All UV Systems

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