

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

# **Aqualight**<sup>®</sup> **PUV** 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)

Residential Commercial Application

Model	PV1	PV2	PV4	PV6	PV8	PV12
Flow Rate @30mJ/cm <sup>2</sup>	1gpm, 3.78 lpm, 0.25 m3/hr	2gpm, 7.5 lpm, 0.5 m3/hr	4gpm, 15.1 lpm, 1 m3/hr	6gpm, 22.7 lpm, 1.4 m3/hr	8gpm, 30.2 lpm, 1.8 m3/hr	12gpm, 45.4 lpm, 3 m3/hr
Flow Rate @NSF 40mJ/cm <sup>2</sup>	0.5gpm, 1.8 lpm, 0.1 m3/hr	1.5gpm, 5.5 lpm, 0.3 m3/hr	3gpm, 11.2 lpm, 0.6 m3/hr	4.5gpm, 17 lpm, 1 m3/hr	5.5gpm, 20.8 lpm, 1.3 m3/hr	8.5gpm, 32.1 lpm, 1.9 m3/hr
Inlet/Outlet	1/4"	1/4"	1/2"	3/4"	3/4"	3/4", 1"
Dimensions	28x5.1cm(11"x2.0")	36x6.5cm(14"x2.5")	42x6.5cm(17"x2.5")	56x6.5cm(22"x2.5")	70x6.5cm(28"x2.5")	92x6.5cm(36"x2.5")
Lamp Watts	10W	14W	19W	28W	32W	39W
IC Controller	BAP4011,110V. or BAP4022,220V.		11. 6x6x2. 6cm(4. 6"x2. 4"x1.03")		Lamp Operating LED, Audible Lamp Failure	

Model	PV1T	PV2T	PV4T	PV6T	PV8T	PV12T
IC Controller	BAP40365,		100V.-250V./50-60Hz.		18x9.5x5cm(7.08"x3.7"x1.9")	

Model	PV18T	PV24T	PV35T	PV42T	PV52T	
Flow Rate @30mJ/cm <sup>2</sup>	18gpm, 68.1 lpm, 4.1 m3/hr	24gpm, 90.8 lpm, 5.5 m3/hr	35gpm, 132.4 lpm, 7.9 m3/hr	42gpm, 158.9 lpm, 9.5 m3/hr	52gpm, 196.8 lpm, 11.8 m3/hr	
Flow Rate @NSF 40mJ/cm <sup>2</sup>	13gpm, 49.2 lpm, 2.9 m3/hr	17gpm, 64.3 lpm, 3.8 m3/hr	26gpm, 98.4 lpm, 5.9 m3/hr	31gpm, 117.3 lpm, 7 m3/hr	39gpm, 147.6 lpm, 8.8 m3/hr	
Inlet/Outlet	1"	1"	1"	1-1/2"	1-1/2"	
Dimensions	49x8.9cm(19"x3.5")	57x8.9cm(23"x3.5")	76x8.9cm(30"x3.5")	92x8.9cm(36"x3.5")	111x8.9cm(43"x3.5")	
Lamp Watts	40W	50W	65W	80W	100W	
IC Controller	BAP100365,		100V.-250V./50-60Hz.		18x9.5x5cm(7.08"x3.7"x1.9")	

► Flow Rate Stated at 95% UVT of EOL (End of Lamp Life)

### Control

- + Lamp Operating LED
- + Audible Lamp Failure
- + Lamp Life 365 Days Countdown
- + Countdown Resettable
- + Total Running Days
- + Lamp Replacement Reminder
- + Deferred Alarm (4 times max.)
- + Dry Contacts (Lamp or Power Fails)

### Operating Parameters

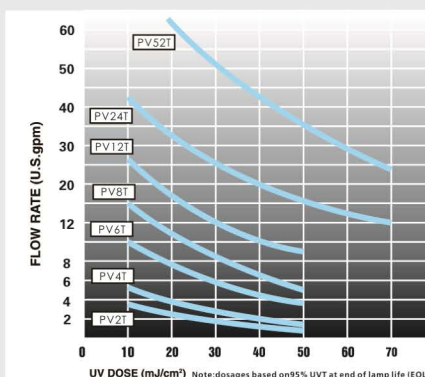
- + Max. operating pressure 125psi (8.62 bar)
- + Ambient water temperature 2-40°C (36-104°F)
- + Iron < 0.3ppm (0.3 mg/L)
- + Hardness < 7gpg (120mg/L)
- + Turbidity < 1 NTU
- + UV Transmittance > 75%

### General

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

### Replacement Parts

Lamp, GPH212T5L/4-LT	Quartz Sleeve, QS245 & Spring, SPRING4506	For PV1/PV1T
Lamp, GPH287T5L/4-LT	Quartz Sleeve, QS331 & Spring, SPRING4506	For PV2/PV2T
Lamp, GPH330T5L/4-LT	Quartz Sleeve, QS375 & Spring, SPRING4506	For PV4/PV4T
Lamp, GPH505T5L/4-LT	Quartz Sleeve, QS535 & Spring, SPRING4506	For PV6/PV6T
Lamp, GPH645T5L/4-LT	Quartz Sleeve, QS665 & Spring, SPRING3604	For PV8/PV8T
Lamp, G36T5L/4-LT	Quartz Sleeve, QS890 & Spring, SPRING4506	For PV12/PV12T
Lamp, GHO422T5L/4-LT	Quartz Sleeve, QS452 & Spring, SPRING4506	For PV18T
Lamp, GHO512T5L/4-LT	Quartz Sleeve, QS542 & Spring, SPRING4506	For PV24T
Lamp, GHO702T5L/4-LT	Quartz Sleeve, QS732 & Spring, SPRING4506	For PV35T
Lamp, GHO36T5L/4-LT	Quartz Sleeve, QS890 & Spring, SPRING4506	For PV42T
Lamp, GHO1052T5L/4-LT	Quartz Sleeve, QS1082 & Spring, SPRING4506	For PV52T



**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.