

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

# **Aqualight**<sup>®</sup> **PTM** 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	PTM2	PTM4	PTM6	PTM8	PTM12
Flow Rate @30mJ/cm <sup>2</sup>	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>	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	1/2"	1/2"	3/4"	3/4"	3/4", 1"
Dimensions	42x6.5cm(17"x2.5")	46x6.5cm(18.5"x2.5")	62x6.5cm(25"x2.5")	76x6.5cm(30"x2.5")	98x6.5cm(39"x2.5")
Lamp Watts	14W	19W	28W	32W	39W
IC Controller	BAP40365		100V.-250V./50-60Hz.		18x9.5x5cm(7.08"x3.7"x1.9")

Monitored	PTM2S	PTM4S	PTM6S	PTM8S	PTM12S
IC Controller	BAP40365MS,		100V.-250V./50-60Hz.		24x9.5x5cm(7.08"x3.7"x1.9")
254NM UV Sensor	GDS254NM15-V, Voltage Signal Interfaces, Integrated Temperature Sensor, RJ45 Connection, 1/2", SS316				
4-20mA Output	YES (optional)				

Model	PTM18	PTM24	PTM35	PTM42	PTM52
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	54x8.9cm(22"x3.5")	63x8.9cm(25"x3.5")	82x8.9cm(33"x3.5")	98x8.9cm(39"x3.5")	117x8.9cm(46"x3.5")
Lamp Watts	40W	50W	65W	80W	100W
IC Controller	BAP100365,		100V.-250V./50-60Hz.		18x9.5x5cm(7.08"x3.7"x1.9")

Monitored	PTM18S	PTM24S	PTM35S	PTM42S	PTM52S
IC Controller	BAP100365MS,		100V.-250V./50-60Hz.		24x9.5x5cm(9.45"x3.7"x1.9")
254NM UV Sensor	GDS254NM15-V, Voltage Signal Interfaces, Integrated Temperature Sensor, RJ45 Connection, 1/2", SS316				
4-20mA Output	YES (optional)				

### Control

- + Lamp Operating LED
- + Audible Lamp Failure
- + UV Relative Intensity in %
- + Low UV Alarm
- + 2-Stage Lamp Power
- + 4-20mA Output (optional, #YRJ45-420)
- + Lamp Life 365 Days Countdown
- + Countdown Resettable
- + Total Running Days
- + Lamp Replacement Reminder
- + Deferred Alarm (4 times max.)
- + Dry Contacts

### Operating Parameters

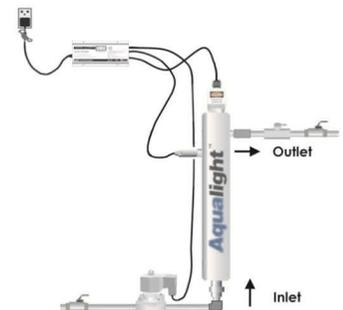
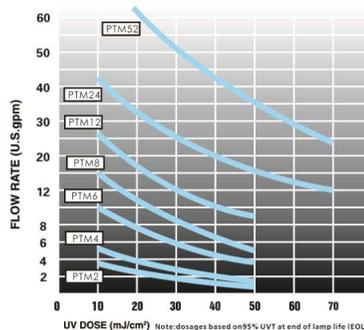
- + Max. operating pressure 125psi (8.62 bar)
- + Ambient water temperature 2-40°C (36-104°F)
- + Iron < 0.3ppm (0.3 mg/L)
- + Hardness < 7gpg (120mg/L)
- + Turbidity < 1 NTU
- + UV Transmittance > 75%

### 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, GPH287T5L/4-LT	Quartz Sleeve, QS331 & Spring, SPRING4506	For PTM2/PTM2S
Lamp, GPH330T5L/4-LT	Quartz Sleeve, QS375 & Spring, SPRING4506	For PTM4/PTM4S
Lamp, GPH505T5L/4-LT	Quartz Sleeve, QS535 & Spring, SPRING4506	For PTM6/PTM6S
Lamp, GPH645T5L/4-LT	Quartz Sleeve, QS665 & Spring, SPRING3604	For PTM8/PTM8S
Lamp, G36T5L/4-LT	Quartz Sleeve, QS890 & Spring, SPRING4506	For PTM12/PTM12S
Lamp, GHO422T5L/4-LT	Quartz Sleeve, QS452 & Spring, SPRING4506	For PTM18/PTM18S
Lamp, GHO512T5L/4-LT	Quartz Sleeve, QS542 & Spring, SPRING4506	For PTM24/PTM24S
Lamp, GHO702T5L/4-LT	Quartz Sleeve, QS732 & Spring, SPRING4506	For PTM35/PTM35S
Lamp, GHO36T5L/4-LT	Quartz Sleeve, QS890 & Spring, SPRING4506	For PTM42/PTM42S
Lamp, GHO1052T5L/4-LT	Quartz Sleeve, QS1082 & Spring, SPRING4506	For PTM52/PTM52S



**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.