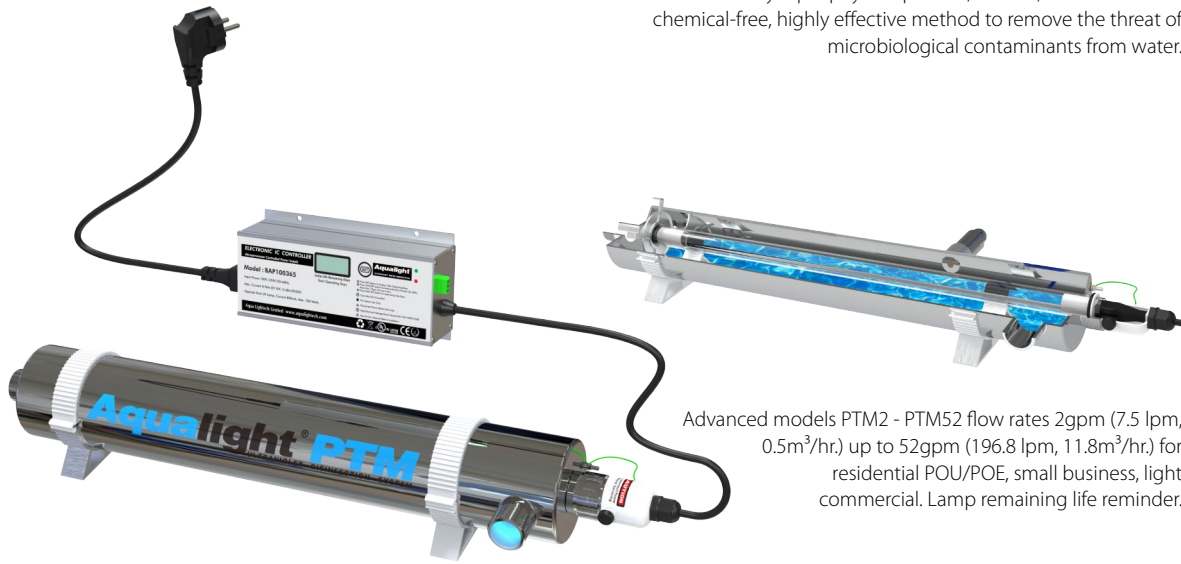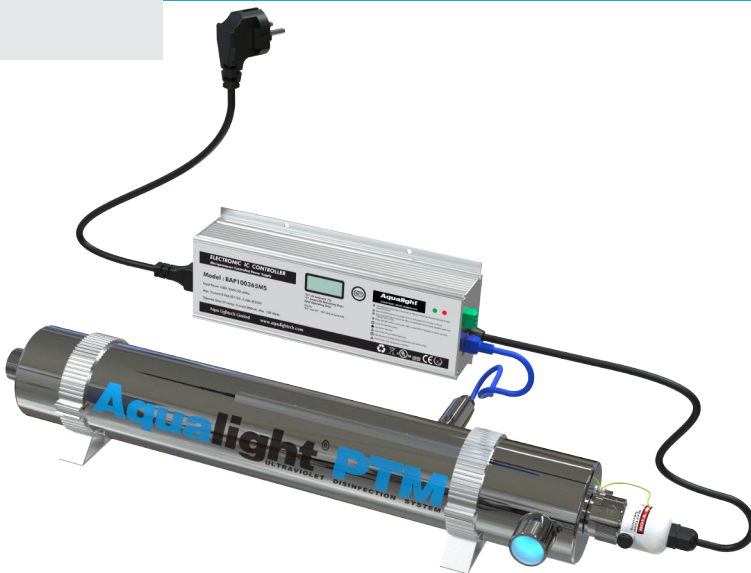# Aqualight® PTM
ULTRAVIOLET WATER DISINFECTION

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.

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, small business, light commercial. Lamp remaining life reminder.

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.

Nonitored 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. Ultraviolet intensiity monitoring, 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	¼" or ½"	½"	¾"	¾"	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"	1½"	1½"
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
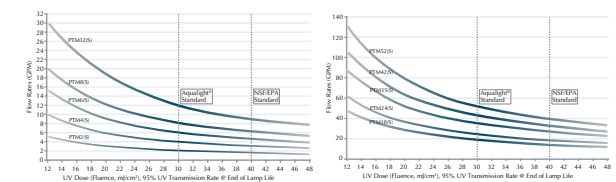- Vertical Installation (recommend) or Horizontal

Parameters
- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40℃ (36-104℉)
- 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%

Warranty
- Ultraviolet Water Disinfection Systems Carry a Three Year Warranty on the Stainless Steel Reaction Chamber
- A TWO Year on Power Supply Controller
- A ONE Year Warranty on Ultraviolet Lamp, Quartz Sleeve and Other Components

Dosage

Installation Layout