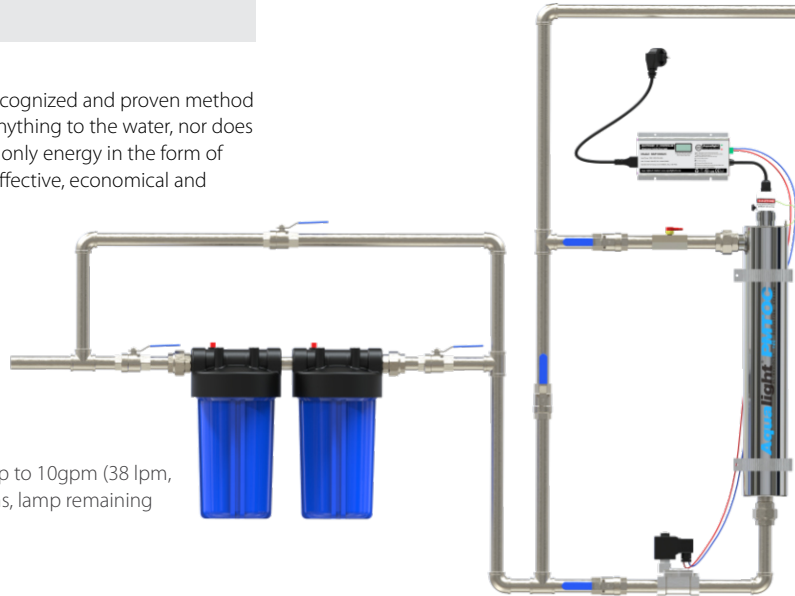


The TOC reduction systems are designed specifically for the reduction of total organic carbon (TOC) levels. These systems are designed with shorter wavelength UV lamps emitting their spectral output at 185nm. These "shorter" wavelength lamps emit more energy than standard 254nm lamps producing hydroxyl free radicals (OH) which is turn oxidizes most organics into carbon dioxide (CO₂) and water (H₂O).



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 .

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.

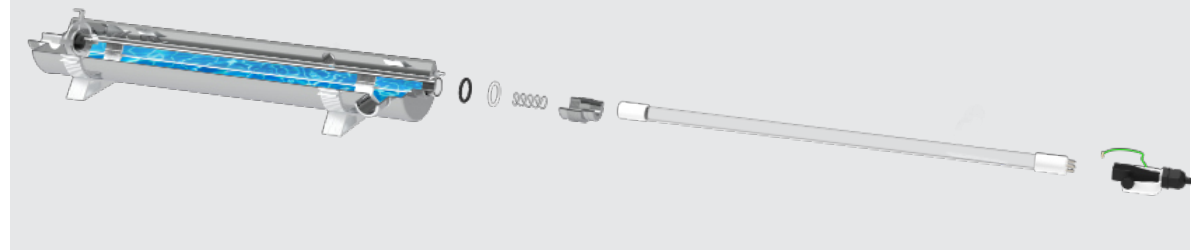


Flow rates 1gpm (3.8 lpm, 0.25m³/hr.) up to 10gpm (38 lpm, 2.3m³/hr.) for light industrial applications, lamp remaining life reminder.

Specifications

Model	PMTOC-1	PMTOC-3	PMTOC-6	PMTOC-8	PMTOC-10
Flow Rates @ 120mJ/cm ²	1gpm, 3.8lpm, 0.25m ³ /hr	3gpm, 11.5lpm, 0.7m ³ /hr	6gpm, 23lpm, 1.4m ³ /hr	8gpm, 30lpm, 1.8m ³ /hr	10gpm, 38lpm, 2.3m ³ /hr
Inlet/Outlet	½"	½"	¾"	¾"	¾"
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 (Domed, Single Open)	QS375	QS890	QS542	QS732	QS890
Advanced Controller	Part No. BAP40365, Universal Voltage 100V-250V/ 50-60Hz., 18*9.5*5cm (7.1*3.7*2 in.)		Part No. BAP100365, Universal Voltage 100V-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°C					

Exploded View



General

- SS304 Construction Material (SS316 as Request)
- Vertical Installation (recommend) or Horizontal

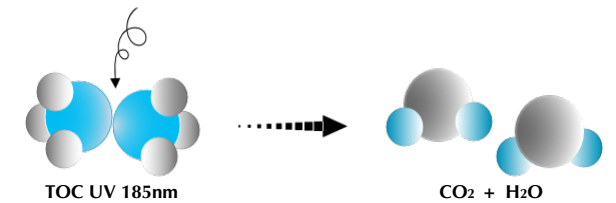
Parameters

- Max. Operating Pressure 125psi (8.62 bars)
- Ambient Water Temperature 2-40°C (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%

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

Principle



- Causes photochemical reactions
- Promoted hydroxyl (OH-) free radicals
- Oxidizes most organics into CO₂ and H₂O

Note: reduction in the order of < few ppb can be reached. TOC reduction and microbial destruction occurs with the use of 185nm wavelength lamps.