



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°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%

Specifications

Model	PTOC12	PTOC20	PTOC25	PTOC30	PTOC35	PTOC50	PTOC60	PTOC75	PTOC85	PTOC100	PTOC125	PTOC150
Flow Rates @ 120mJ/cm²	12gpm (3.0m³/hr)	20gpm (4.5m³/hr)	25gpm (5.7m³/hr)	30gpm (6.8m³/hr)	35gpm (8m³/hr)	50gpm (11m³/hr)	60gpm (14m³/hr)	75gpm (17m³/hr)	85gpm (19m³/hr)	100gpm (23m³/hr)	125gpm (28m³/hr)	150gpm (34m³/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# GH036T5VH-LT, 80 Watts, 800mA, 185nm					Part# GH064T5VH-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

