

triogen[®] UV SMP offers a compact and high efficiency disinfection system for aquarium, aquaculture and water feature applications. These systems provide advanced lamp and vessel efficiency with a range of options including energy saving features, for disinfection and improved water quality.

APPLICATIONS

- Aquariums
- Aquaculture
- Water features
- Process water
- TOC reduction

BENEFITS

- Safely control background levels of general bacteria
- Significant improvement in water clarity and air quality
- Simple control logic / easy to operate
- Helps to inhibit the growth of algae
- Savings in water, energy and chemical consumption
- Low capital and installation costs, with minimal service and plant room space required
- Low service requirements

MAIN FEATURES

- Polychromatic 8,000 hour medium pressure UV lamp system
- Auto dose pacing options
- 316L stainless steel electro-polished vessel
- Vessel and wetted parts available in titanium
- Automatic "Smartdrive" wiper system and UV monitor
- Digital membrane LCD microprocessor control
- Advanced lamp efficiency and low power setting function
- Data logging, BMS, Ethernet and Modbus communication ready
- Manual and remote operation and status
- CE certified, manufactured to ISO 9001 : 2015
- Models available with reduced feature options

UV TECHNOLOGY

- Medium pressure polychromatic ultraviolet light (UV) is a highly effective means to inactivate bacteria and viruses, and will oxidise organic species in water.
- UV disinfection consists of a physical, chemical free process, directly attacking the vital DNA of bacteria, micro organisms and parasites.
- UV is widely considered as the main method of disinfection in aquariums and fish farms.
- UV technology will easily enhance the disinfection and oxidation of all types of pools and water features.



TECHNICAL DATA MODEL	Flow Rate 90% UVT 40mJ/cm ²	Flow Rate 90% UVT 200mJ/cm ²	Connection flanges	Operation & Maintenance Area	Lamp Removal	Wiper Stroke	Control Panel Dimensions
	m ³ /h	m ³ /h	DN	mm (LxHxW)	mm	mm	mm (LxHxW)
SMP-100-75-1/1.5kW	20.6	4.1	DN65	2795 x 175 x 225	900	830	600 x 200 x 800
SMP-150-100-1/1.5kW	35	7.2	DN100	2795 x 175 x 225	900	830	
SMP-150-100-1/3kW	69	14	DN100	3080 x 300 x 300	900	830	
SMP-250-150-1/3kW	107	22	DN150	4150 x 400 x 375	1250	1200	800 x 500 x 1400
SMP-200-150-2/3kW	160	32	DN150	3080 x 350 x 325	900	830	
SMP-250-200-1/6kW	214	43	DN200	4150 x 400 x 375	1250	1200	
SMP-250-200-3/3kW	286	57	DN200	4150 x 400 x 375	1250	1200	
SMP-300-250-2/6kW	430	86	DN250	4150 x 500 x 450	1250	1200	
SMP-400-350-3/6kW	748	149	DN350	4150 x 550 x 550	1250	1200	
SMP-350-200-6/6kW	-	277	DN200	4150 x 500 x 525	1250	1200	800 x 800 x 2000

MATERIALS

- Vessel: 316L stainless steel, rated to 10 Bar(g)
- Flanges: BS EN1092 PN10 / ANSI 150
- Lamp: high purity quartz
- Thimble: high purity quartz
- Panel: Polyester coated mild steel, IP54 protection

TECHNICAL FEATURES

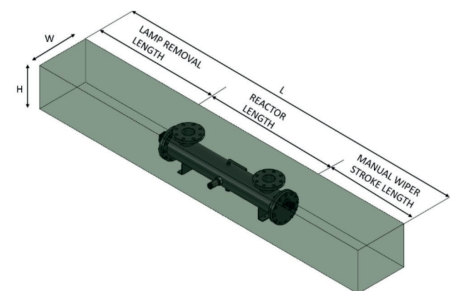
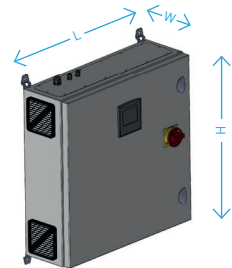
- Supply voltage : 380 - 480/3ph/ 50 - 60Hz
- CE Certificate

OPTIONS

- No wiper
- Power step regulation
- Stainless steel control panel
- Triclamp inlet/outlet connections
- Welded reactor surfaces (0.35µm) & electro polished
- 316L stainless steel ancillaries
- Additional cable (5m standard)
- UV sensor deletion
- TOC Reduction

CONTROLS AND SIGNALS

- BMS connectivity with data logging
- Local and remote:
 - * UV Lamp on/off or fault
 - * UV intensity in W/m², mJ/cm² or requires a 4-20 mA signal from a water flowrate measuring device (not supplied)
 - * Reactor / panel high temperature, MCB1 (RCD) Trip / Wiper motor MCB trip
 - * Remote control on/off
 - * Low power on,
 - * Lamp change Required
- Local:
 - * Manual wipe / Auto wipe, Lamp hours
 - * Languages options (French, English, Spanish, German)
 - * Spare Parts guidance / service kits



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