

triogen[®] UV SMP offers a compact and high efficiency system for small and medium water treatment plants for a wide range of application flow rate for exceptional reliability and ease of operation. 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

BENEFITS

- Safely lower free chlorine residual with effective disinfection including chlorine resistant micro-organisms
- Chloramine destruction
- Significant improvement in water clarity and air quality
- Improves algae control
- Savings in water, energy and chemical consumption
- Fewer lamps
- Simple control logic/easy to operate
- Simple to install and operate with minimal plant room space requirement

MAIN FEATURES

- Polychromatic 8000 hour medium pressure UV lamp system
- 316L stainless steel electro polished vessel
- Automatic "Smartdrive" wiper system and UV monitor
- Digital membrane LCD microprocessor control
- Advanced lamp efficiency and automatic low power setting
- Data logging, BMS, ethernet and modbus communication ready
- Manual and remote operation and status
- CE certified, manufactured to ISO 9001:2008
- Models available with reduced feature options

UV TECHNOLOGY

Medium pressure polychromatic ultraviolet light (UV) is highly effective at inactivating bacteria and viruses and also for oxidising organic species in water. Ultraviolet disinfection consists of a physical, chemical-free process, attacking the vital DNA of the bacteria and micro organisms directly, including examples such as parasites, Cryptosporidium or Giardia, which are extremely resistant to chemical disinfectants. In addition, it reduces chloramines by a variety of mechanisms. UV technology has advanced to the point where it can easily enhance the disinfection and oxidation of all sorts of applications.



TECHNICAL DATA MODEL ^(**)	Flow rate ⁽¹⁾	Flow rate ⁽²⁾	Lamp Power	Supply Rating ⁽¹⁾	Inlet/outlet Connections ^(**)	Maintenance Area	Control Panel Dimensions
	(m ³ /h)	(m ³ /h)	(kW)	V/ph/Hz	mm/inches	(mm) LxHxW	(mm) LxHxW
SMP100-xxx-1/1.5kW	15	14	1.5	OPTIONS 380/3/50-60 400/3/50 415/3/50 480/3/60 Other voltages on request	50/2"	2315x175x225	600x210x800
SMP150-xxx-1/1.5kW	26	23	1.5		75/3"	2315x225x275	
SMP100-xxx-1/3kW	30	27	3.0		75/3"	2315x175x225	
SMP150-xxx-1/3kW	53	46	3.0		100/4"	2315x225x275	
SMP200-xxx-1/3kW	73	60	3.0		150/6"	2315x275x325	
SMP250-xxx-1/3kW	91	71	3.0		150/6"	2315x325x375	800x300x1000
SMP250-xxx-1/6kW	182	143	6.0		200/8"	3015x325x375	
SMP300-xxx-1/6kW	213	160	6.0		200/8"	3015x375x500	
SMP200-xxx-2/3kW	130	107	2x3.0=6.0		150/6"	2315x275x325	
SMP300-xxx-2/6kW	383	286	2x6.0=12.0		250/10"	3015x375x500	
SMP350-xxx-2/6kW	434	312	2x6.0=12.0		250/10"	3015x425x525	800x500x1800
SMP250-xxx-3/3kW	244	191	3x3.0=9.0		200/8"	3015x325x375	
SMP400-xxx-3/6kW	718	499	3x6.0=18.0		350/14"	3015x475x550	
SMP250-xxx-4/3kW	326	254	4x3.0=12.0	200/8"	3015x325x375		

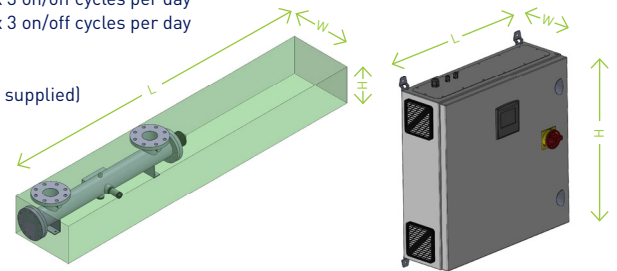
(1) flow rates based on a dose of 60mJ/cm² at 95% UVT end of lamp life 8000 hours based on max 3 on/off cycles per day

(2) flow rates based on a dose of 60mJ/cm² at 90% UVT end of lamp life 8000 hours based on max 3 on/off cycles per day

(*) Voltage requirements must be confirmed at order

(**) Other sizes are available

(#) UV intensity in mJ/cm² requires a 4-20mA signal from a water flowrate measuring device (not supplied)



QUALITY STANDARDS

- CE Approved
- ISO 9001:2008

MATERIALS

- Reactor Material: 10 bar 316L stainless steel electro polished
- Flanges: 316L stainless steel electro polished, type BS PN10, ANSI 150
- Lamp: high purity quartz
- Thimble: high purity quartz
- Panel material: IP54 polyester coated mild steel

REMOTE CONTROL AND ALARMS

- BMS Connectivity with data logging
- Local and remote: UV lamp on/off
- UV fault, UV intensity (0-10V 4-20mA)^(#)
- Panel High Temperature, Reactor High Temperature, MCB1 (RCD) trip, Wiper motor MCB trip, Remote control on/off, Low power on, Lamp change Required
- Local: Manual wipe, auto wipe, hours ran, languages, Spare Parts
- Technical Support

OPTIONS

- Manual wiper, No wiper
- Power step regulation
- Stainless steel control panel
- Triclamp
- Welded reactor surfaces (0.35µm) and electro polished
- 316L stainless steel ancillaries
- Additional meter cable (5m standard)
- No UV sensor

CONTACT

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