

triogen[®] UV SMPVC medium pressure UV system has been specifically designed as a cost effective unit for use in aquariums and salt water applications. The reactor body is manufactured in corrosion resistant uPVC material with internal titanium liner to avoid corrosion.

APPLICATIONS

- Aquariums
- Aquaculture
- Salt water

BENEFITS

- Safely lower free chlorine residual with effective disinfection including chlorine resistant micro-organisms
- Chloramine destruction
- Improves algae control
- Significant improvement in water clarity and air quality
- Savings in water, energy and chemical consumption
- Low capital and installation costs with minimal service and plant room space required
- Suitable for indoor and outdoor applications
- Highly resistant to corrosion attack

MAIN FEATURES

- Polychromatic 8000 hour medium pressure UV lamp system
- Reactor vessel constructed from uPVC.
- Internal titanium reflector
- Quick release lamp power head & thimble assembly
- Wall mounted control panel with hours ran display
- Reactor and panel thermostatic sensor protection
- Flow/pump interlock
- CE certified, manufactured to ISO 9001:2008

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 Rates ⁽¹⁾		Flow Rates ⁽²⁾		Lamp Power kW	Supply Rating ^(*) V/ph/Hz	Inlet/outlet Connections mm/inches	Maintenance Area mm (LxWxH)	Control Panel Dimensions mm (LxWxH)
	m ³ /h	US gpm	m ³ /h	US gpm					
SMPVC 75	20	85	18	75	1.5	220-240/1/50-60	50/2	1900x150x370	500x210x500
SMPVC 100	65	275	50	210	3.0	380-415/3/50-60	75/3	2023x150x490	500x210x500
SMPVC 150	95	400	85	360	3.0	380-415/3/50-60	100/4	2070x200x620	500x210x500
SMPVC 200	115	490	100	425	3.0	380-415/3/50-60	150/6	2190x200x640	500x210x500

(1) flow rates based on a dose of 35mJ/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 35mJ/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

QUALITY STANDARD

- CE Approved
- ISO 9001:2008

MATERIALS

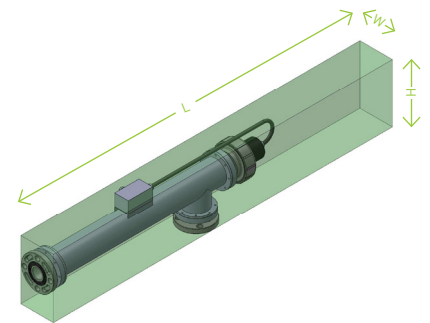
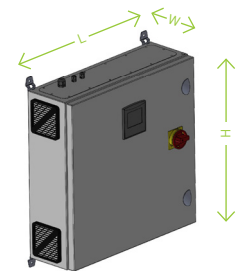
- Reactor material: UPVC
- Reactor Internal: 316 Titanium reflector
- Panel material: polyester coated mild steel
- Lamp: high purity quartz
- Thimble: high purity quartz

REMOTE CONTROLS AND SIGNALS

- Digital inputs: lamp stop-start, water flow interlock
- Digital outputs: system healthy, prealarm, system fault
- Power / system on/off switch indicator
- Lamp Low Current Fault
- Lamp Trip Fault (Red)
- Panel High Temperature Fault
- Reactor High Temperature Fault
- Remote Trip Fault
- Reactor Temperature Display
- Hours Run Meter

OPTIONS

- 316 Stainless steel strainers



CONTACT

SUEZ Purification & Disinfection Systems Ltd
Unit 14 Langlands Place, East Kilbride G75 0YF
Scotland, United Kingdom
Tel: + 44 (0) 13 55 220 598
Fax: + 44 (0) 13 55 570 058
www.triogen.com
info@triogen.com

Your local distributor: