

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

- Salt water
- Aquariums
- Aquaculture

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
- Suitable for indoor and outdoor applications
- Highly resistant to corrosion attack

MAIN FEATURES

- Polychromatic 8,000 hour medium pressure UV lamp system
- Reactor vessel constructed from uPVC.
- Internal titanium reflector liner
- Quick release lamp power head & thimble assembly
- Wall mounted control panel with 2 line LCD controller
- UV Reactor with horizontal mounting only
- Reactor and panel thermostatic sensor protection
- Flow/pump interlock
- CE certified, manufactured to ISO 9001 : 2015

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 Rates ⁽¹⁾		Flow Rates ⁽²⁾		Lamp Power	Supply Rating ^(*)	Inlet/outlet Connections	Maintenance Area	Control Panel Dimensions
	m ³ /h	US gpm	m ³ /h	US gpm	kW	V/ph/Hz	mm/inches	mm (LxWxH)	mm (LxWxH)
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 8,000 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 8,000 hours based on max 3 on/off cycles per day

(*) Electrical supply must be confirmed at time of order

QUALITY STANDARD

- ISO 9001 : 2015
- CE Approved

MATERIALS

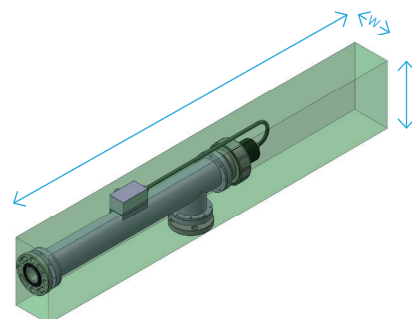
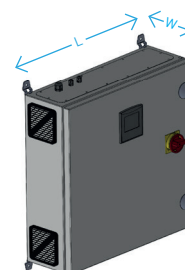
- Reactor: UPVC
- Reactor Internal: titanium reflector
- Lamp: high purity quartz
- Thimble: high purity quartz
- Control Panel: Polyester coated mild steel

OPTIONS

- 316 stainless steel strainers

REMOTE CONTROLS AND SIGNALS

- 2 line LCD controller mounted to control panel, incorporating Lamp ON/OFF button and Lamp hours screen
- Auto Lamp OFF function (at a pre-set time)
- Lamp current displayed
- System Control screen (switch between manual or remote)
- Reactor and Panel temperatures displayed
- Low & High current alarms can be set within the controller
- Alarm screen displays: Lamp High Current, Lamp RCD Trip, Lamp MCB Trip, Lamp Low Current, Reactor High Temp, Panel High Temp, Lamp Change Required, Pump Interlock
- Lamp cooling screen (countdown to next start)



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