

triogen[®] UV LP range offers an entry level commercial low pressure high efficiency system for water features and aquaculture applications. A wide range of flow rates are available with simplified operating and optional additional features, providing cost effective disinfection for improved water quality and exceptional reliability.

APPLICATIONS

- Aquariums
- Aquaculture
- Water features

BENEFITS

- Safely lower free chlorine residual with effective disinfection including chlorine resistant micro-organisms
- Reduction in skin, eye and respiratory irritation
- Improves algae control
- Savings in water, energy and chemical consumption
- Low capital and installation costs with minimal service and plant room space required
- Simple control logic/easy to operate
- Low service requirements

MAIN FEATURES

- High intensity long life low pressure 16,000 hour UV lamps
- 316L stainless steel vessel
- Wall mounted control panel with hours ran display
- Digital membrane LCD microprocessor control
- Reactor and panel thermostatic sensor protection
- Manual and remote operation and status
- Flow/pump interlock
- CE certified, manufactured to ISO 9001:2008

UV TECHNOLOGY

Low pressure ultraviolet light (UV) is highly effective at inactivating bacteria and viruses, as well as enhanced algae control. 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. UV is recommended as a complementary protection against such chlorine resistant organisms, therefore for applications such as pools small background level of disinfectant should always be maintained. UV treatment is compatible with all other sanitisers, including chlorine, bromine, active oxygen, peroxide and copper based compounds, and allows for the levels of these to be significantly reduced.



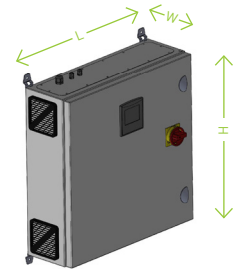
TECHNICAL DATA MODEL	Flow Rates ⁽¹⁾		Flow Rates ⁽²⁾		Lamp Power kW	Supply Rating ^(*) V/ph/Hz	Inlet/outlet Connections mm/inches	Maintenance Area mm (LxWxH)	Control Panel Dimensions mm (LxWxH)
	m ³ /h	US gpm	m ³ /h	US gpm					
LP100-40-120-1	9	40	7	30	0.12	220-240V/ 1PH/50-60HZ	40/1.5	1950x200x250	300x150x300
LP150-50-120-1	11	48	9	40	0.12		50/2	1950x200x300	400x200x600
LP150-50-120-2	20	88	17	75	0.24		50/2	1950x200x300	400x200x600
LP150-75-120-3	30	132	24	106	0.36		80/3	1950x200x300	400x200x600
LP150-75-120-4	40	176	32	141	0.48		80/3	1950x200x350	400x200x600
LP200-100-200-2	60	264	46	203	0.40		100/4	2300x250x400	400x200x600
LP200-150-200-3	90	396	68	300	0.60		150/6	2300x250x400	400x200x600
LP200-150-200-4	120	528	84	370	0.80		150/6	2300x250x400	400x200x600

(1) flow rates based on a dose of 40mJ/cm² at 95% UVT end of lamp life 16000 hours based on max 3 on/off cycles per day

(2) flow rates based on a dose of 40mJ/cm² at 90% UVT end of lamp life 16000 hours based on max 3 on/off cycles per day

(*) Voltage requirements must be confirmed at order

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



QUALITY STANDARDS

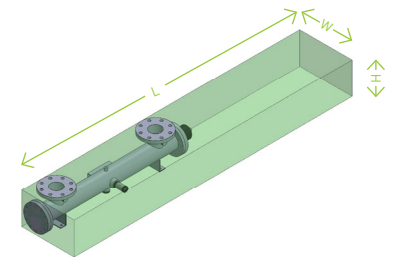
- CE approved
- ISO 9001:2008

MATERIALS

- Reactor material: 316L stainless steel electro polished
- Flanges: 316L stainless steel electro polished, BS PN10, ANSI 150
- Panel material: mild steel epoxy painted
- Lamp: high purity quartz
- Thimble: high purity quartz

REMOTE CONTROLS AND SIGNALS

- 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

- Stainless steel control panel
- UV sensor (only LP 150 and 200)
- Water Flow switch
- Manual wiper mechanism
- 316 Stainless steel bends
- 316 Stainless steel strainers

CONTACT

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