

triogen[®] UV U offers a high performance UV system for commercial pools, spas and water features with a range of options to meet operator budget, capabilities and needs. The traditional U shaped vessel systems provide advanced lamp efficiency with automatic and energy saving features for disinfection and improved water quality.

APPLICATIONS

- Commercial pools
- Hotel / club pools
- Water features

BENEFITS

- Safely lower free chlorine residual with effective disinfection including chlorine resistant micro-organisms
- Chloramine destruction reducing skin, eye and respiratory irritation
- Significant improvement in water clarity and air quality
- Improves algae control
- Savings in water, energy and chemical consumption
- Low capital and installation costs with minimal service and plant room space required

MAIN FEATURES

- Polychromatic 8000 hour medium pressure UV lamp system
- Advanced lamp efficiency and automatic low power setting
- 316L stainless steel electro polished vessel
- Automatic "Smartdrive" wiper system and UV monitor
- Digital membrane LCD microprocessor control
- Data logging, BMS, ethernet and modbus communication ready
- CE, UL Listed and manufactured to ISO 9001: 2008
- U-LT 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 pools.



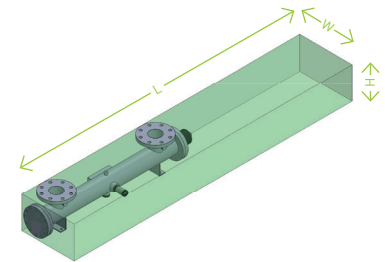
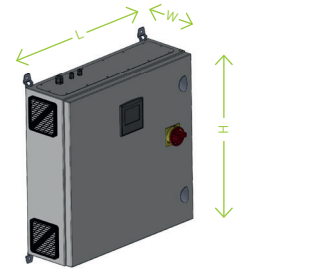
TECHNICAL DATA MODEL	Flow Rates ⁽¹⁾		Flow Rates ⁽²⁾		Lamp Power kW	Supply Rating ^(*) V/ph/Hz	Inlet/outlet Connections mm/inches	Maintenance Area mm (LxWxH)	Control Panel Dimensions mm (LxWxH)
	m ³ /h	US gpm	m ³ /h	US gpm					
U/U-LT 45	45	198	67	297	1.5	OPTION 380/3/50-60 400/3/50 415/3/50 480/3/60 Other voltages on request	75/3"	2315/2865 x 275 x 325	600 x 800 x 200
U/U-LT 90	90	396	135	594	3.0		150/6"	2315/2865 x 275 x 325	600 x 800 x 200
U/U-LT 125	125	550	187	823	3.0		150/6"	2315/2865 x 325 x 375	600 x 800 x 200
U/U-LT 210	210	924	315	1386	6.0		200/8"	3015/3915 x 325 x 375	600 x 1000 x 300
U/U-LT 300	300	1320	450	1981	6.0		200/8"	3015/3915 x 375 x 450	600 x 1000 x 300
U/U-LT 400	400	1761	600	2641	6.0		250/10"	3015/3915 x 475 x 550	600 x 1000 x 300
U 600	600	2642	900	3962	2 x 6.0 = 12.0		300/12"	3015 x 425 x 525	600 x 1800 x 500
U 750	750	3302	1125	4953	2 x 6.0 = 12.0		300/12"	3015 x 475 x 550	600 x 1800 x 500
U 1000	1000	4402	1500	6604	3 x 6.0 = 18.0		350/14"	3015 x 475 x 550	600 x 1800 x 500

(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 40mJ/cm² at 95% UVT end of lamp life 8000 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

- ISO 9001:2008
- CE Approved
- UL Listed

MATERIALS

- Reactor Vessel: 316L electro-polished stainless steel
- Flanges: 316L electro-polished flanges
- EN1092 PN10 / ANSI 150RF
- Lamp: high purity quartz
- Thimble: high purity quartz
- Panel: IP54 polyester coated mild steel

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 List
- Technical Support

OPTIONS

- IP panel rating and materials
- Operating pressure 16 bar
- U LT with manual wiper
- U LT with manual wiper + UV monitor with remote analogue output (0-10V 4-20mA)
- 316L stainless steel ancillaries

CONTACT

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