

trigen® UV CF 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.

These certified systems provide advanced lamp and vessel efficiency with automatic and energy saving features for disinfection and improved water quality.

APPLICATIONS

- Commercial pools
- Hotel, club and private pools
- Water parks and water features

BENEFITS

- Safely lower free chlorine residual with effective disinfection including chlorine resistant micro-organisms
- Chloramine destruction reducing "red eye" and irritation of skin and respiratory system
- Significant improvement in water clarity and air quality
- 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

MAIN FEATURES

- Polychromatic 8,000 hour medium pressure UV lamp system
- Systems can be sized for UV dose and UVT combinations to suit customer requirements
- Advanced lamp efficiency and automatic low power setting
- 316L stainless steel electro-polished or titanium vessel
- Automatic "Smartdrive" wiper system and UV monitor
- Quick release powerhead for easy lamp replacement
- Wall mounted touchscreen microprocessor control panel
- Data logging, BMS, Ethernet and Modbus communication ready
- CE marked, UL listed, NSF50 certified
- Manufactured to ISO 9001 : 2015

UV TECHNOLOGY

- Medium pressure polychromatic ultraviolet (UV) light 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 and micro organisms.
- Chlorine-resistant pathogens such as Cryptosporidium and Giardia are inactivated by UV light.
- UV reduces Chloramines by a variety of mechanisms.
- 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
	m³/h	US gpm	m³/h	US gpm	kW	V/ph/Hz	mm/inches	mm (LxWxH)	mm (LxWxH)
CF 20	20	88	30	132	1.0	220/1/60 230/1/50	75/3"	250x895x385	600x200x600
CF 40	40	176	60	264	1.0		100/4"	740x975x530	
CF 70	70	308	105	462	1.5			900x1175x620	
CF 105	105	462	157	691	2.0	OPTIONS 380/3/50-60 400/3/50 415/3/50 480/3/60 Other voltages on request	150/6"	820x1375x620	
CF 145	145	638	217	955	2.5		200/8"	820x1265x620	800x300x800
CF 170	170	748	255	1122	3.0			890x1465x720	
CF 220	220	968	330	1453	2 x 2.0 = 4.0		250/10"	970x1465x720	
CF 300	300	1320	450	1981	2 x 2.5 = 5.0		300/12"	870x1465x720	1000x300x1000
CF 355	355	1563	532	2342	2 x 3.0 = 6.0			870x1465x720	800x400x1600
CF 415	415	1827	622	2740	2 x 3.5 = 7.0		350/14"	870x1465x720	800x400x1400
CF 530	530	2333	795	3500	3 x 3.0 = 9.0			870x1465x750	800x500x1800
CF 620	620	2730	930	4095	3 x 3.5 = 10.5		400/16"	870x1465x750	
CF 710	710	3126	1065	4690	4 x 3.0 = 12.0				
CF 830	830	3654	1245	5481	4 x 3.5 = 14.0				
CF 1000	1000	4402	1500	6604	5 x 3.5 = 17.5				

(1) flow rates based on a dose of 60mJ/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 40mJ/cm² at 95% 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 STANDARDS

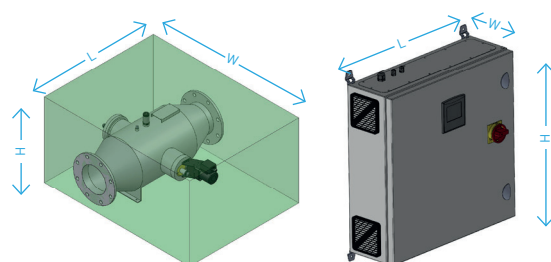
- ISO 9001 : 2015
- CE Approved
- UL Listed
- NSF50 Certified

MATERIALS

- Reactor Vessel: Electropolished 316L stainless steel, rated to 10Bar(g)
- Flanges: BS EN1092 PN10, ANSI 150 or COMBI
- Lamp: high purity quartz
- Thimble: high purity quartz
- Panel: Polyester coated mild steel, IP54 protection

REMOTE CONTROLS AND SIGNALS

- BMS, Modbus and Ethernet
- Local and remote:
 - * Lamp on/off/low power control
 - * Lamp on/off indication
 - * Fault alarms
 - * Lamp hours
 - * Lamp change required
 - * UV intensity
- Local:
 - * UV intensity in W/m², mJ/cm² or % requires a 4-20 mA signal from a water flowrate measuring device (not supplied)
 - * Languages options
 - * Reactor temperature (°C or °F)
 - * Panel temperature (°C or °F)
 - * Real time clock with date
 - * Data logging trends (lamp current, temperature, UV Intensity)



OPTIONS

- IP panel rating and materials
- 316L stainless steel ancillaries
- Reactor vessel & wetted parts in titanium
- Systems can be sized for other UV dose and UVT combinations upon request

CONTACT

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