

ETS-UV WAFER™ UV DISINFECTION GENERATOR

NEW PRODUCT RANGE DESIGNED SPECIFICALLY FOR THE AQUATICS INDUSTRY

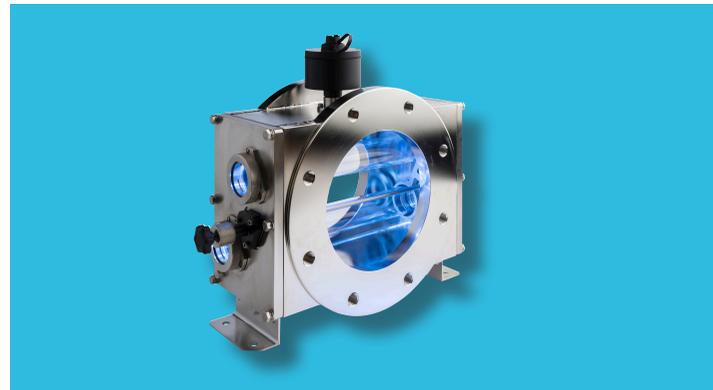
The Wafer™ generator differs from any other UV generator currently on the market, with a unique UV chamber that offers the most compact UV disinfection generator available today. At about one third of the size of comparative UV offerings, and with a significantly reduced maintenance envelope, the Wafer generator delivers an easy to install and retrofit solution that will fit the tightest of mechanical rooms.

Not only does the Wafer UV generator represent the most compact UV solution available on the market, it features a hydraulically optimized generator design and leading polychromatic lamp technology, making it one of the most efficient and highest performing generators as well. The Wafer generator is designed to provide 99.9% inactivation of chlorine-resistant microorganisms such as Cryptosporidium and Giardia.

Operators will also benefit from the inclusion of the Spectra control system as standard, which includes a wide range of features such as a data stream monitoring, process interlocks and programmable set points. A key Spectra control feature includes variable power stepping from 100% to 35% at no extra cost, allowing operators to optimize the operational power of their system to match bather loads and pool operating schedules.

In addition, the Spectra controller features a reactive boost function that automatically operates the lamps at maximum power from a combined chlorine alarm signal, when teamed with a suitable chlorine controller. This is a feature specifically designed for swimming pool applications to break down problematic chloramines as soon as they are detected, significantly improving water quality and eliminating the cause of strong chemical smells, red burning eyes, itchy skin and natorium corrosion.

THE WAFER UV DISINFECTION GENERATOR
OFFERS A COMPACT UV TREATMENT SOLUTION
FOR CAPABILITIES OF 50 M³/HR - 700 M³/HR IN
A SINGLE HIGH OUTPUT UV GENERATOR



PERFORMANCE AND INSTALLATION

- Smaller installation footprint
- Horizontal or vertical installation
- More efficient and enhanced power control
- Higher performance
- Simpler & faster to maintain
- Increased safety
- Ethernet, Modbus® and Profibus®



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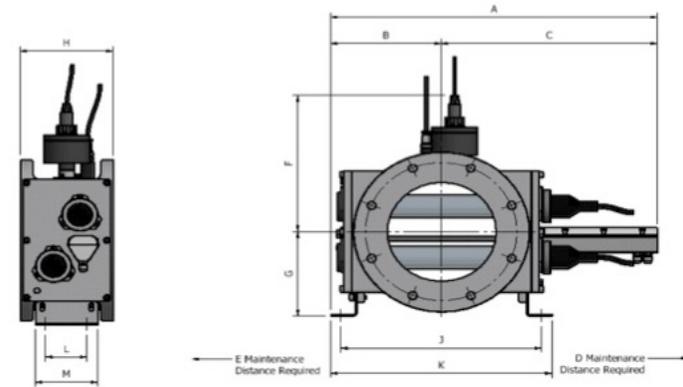
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Neptune-Benson
EVOQUA

UV GENERATOR	WF-115-3	WF-115-4	WF-125-6	WF-215-6	WF-215-8	WF-225-8	WF-230-10	WF-430-12
Certification	CE Marked, NSF-50							
Approvals	MET UL							
CHAMBER SPECIFICATION								
Lamp Power Range (kW)	0.45 - 1.5	0.45 - 1.5	0.75 - 2.5	0.45 - 1.5	0.45 - 1.5	0.75 - 2.5	0.90 - 3.0	0.9 - 3.0
Lamp Number	1	1	1	2	2	2	2	4
Lamp Life	9,000 Hours							
Lamp Design	TWISTLOK® Quick Release, Enhanced Safety - Medium Pressure							
Lamp Nom. V	200V	330V	200V	330V	400V			
Lamp Nom. I	7.5A							
UV Monitoring	AT-900 - ONorm Validated Probe							
Number of Sensors	1							
Variable Power	100% to 30% Power (Automatic Dose Pacing)							
Connection Size (mm/inch)	DN 80/3"	DN 100/4"	DN 150/6"	DN 150/6"	DN 200/8"	DN 200/8"	DN 250/10"	DN 300/12"
Connection Type	USA (ANSI 150) / RoW (EN1092-1-BS4504)							
Design Pressure	10 Barg Design (15 Barge Test)							
Material Construction	316L Stainless Steel							
Internal / External Finish	Electropolished							
Internal Surface Finish	3.2 Ra							
Lamp and Wiper Access	Single Ended Access							
Mounting	Fixed Brackets							
Wiper System	Automatic Wiper System							
Temperature Probe	AT-487 (PT-100)							
Vent Port	USA (1/2" NPT) / RoW (1/2") Air Release Valve Supplied for Horizontal Installations							
Drain Port	USA (1/4" NPT) / RoW (1/4" BSP)							
Sacrificial Anode	USA (1/2" NPT Included) / RoW (None)							
Ingress Protection	IP 55							
Installation	Horizontal or Vertical (Lamps Must be Horizontal)							
PANEL SPECIFICATION								
Design	Epoxy Coated Mild Steel - RAL 7035							
Control Type	Microprocessor							
Ingress Protection	IP54							
Ventilation	Forced Air Cooled (Fan)							
Interface	Spectra Membrane							
Communication	Modbus (RS-422 / RS-485)							
Lamp Power Supply	3.5kW MP Ballast		3.5kW MP Ballast Heat Sink			4kW MP Ballast		
Number of Ballasts	1			2		4		
Power Consumption	1650	1650	2750	3300	5500	6600	13200	
	1Ph 208V	x	x	x	x	x	x	
	1Ph 220V	x	x	x	x	x	x	
	1Ph 230V	x	x	x	x	x	x	
	1Ph 240V	x	x	x	x	x	x	
	3Ph 380V						x	x
	3Ph 400V						x	x
	3Ph 415V						x	x
	3Ph 480V						x	x
Frequency	50 Hz / 60Hz							
Protection	Door Locked MCCB Isolator							
Operation Temperature	Max Working Ambient +45°C							
Digital Inputs	Remote Start/Step +2 x Selectable Inputs (Boost / Low Power / Process Interlock)							
Digital Outputs	2 x Selectable Outputs (System Ready/Critical Alarm/Temp Alarm/Dose Healthy/System Running/System Ready Remote/Break Glass)							
Analogue Inputs	1 x Selectable Input (Flow Rate / UVT)							
Lamp Cable	OLFLEX® CLASSIC 135 CH							
Panel Options	Spectra 7" Touch Screen HMI							

ETS-UV™ DISINFECTION GENERATOR TECHNICAL DATA SHEET

WF WAFER 1- 4 LAMP MEDIUM PRESSURE UV SYSTEMS KEY FOOTPRINT DIMENSIONS



UV GENERATOR	WF-115-3	WF115-4	WF-125-6	WF-215-6	WF-215-8	WF-225-8	WF-230-10	WF-430-12
Chamber Dimensions								
A (inches)	20.3	20.3	24.8	24.8	24.8	24.8	31.0	31.0
B (inches)	6.2	6.2	8.4	8.4	8.4	8.4	11.9	11.9
C (inches)	14.1	14.1	16.4	16.4	16.4	16.4	19.1	19.1
D (inches)	14.4	14.4	18.9	18.9	18.9	18.9	24.4	24.4
E (inches)	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
F (inches)	9.0	9.0	11.4	11.4	11.4	11.4	12.5	13.5
G (inches)	4.8	4.8	7.0	7.0	7.0	7.0	9.1	10.1
H (inches)	6.2	6.2	7.0	7.0	7.0	7.0	7.4	7.4
J (inches)	10.7	10.7	15.2	15.2	15.2	15.2	21.8	21.8
K (inches)	12.3	12.3	16.8	16.8	16.8	16.8	23.8	23.8
L (inches)	3.1	3.1	3.1	3.1	3.1	3.1	5.5	5.5
M (inches)	4.7	4.7	4.7	4.7	4.7	4.7	7.0	7.0
Dry Weight (lbs)	60	57	126	128	117	117	172	194
Wet Weight (Lbs)	66	62	148	150	141	141	218	247

CONTROL PANEL								
Width (inches)	20	20	23	23	23	23	23	31
Height (inches)	20	20	23	23	23	23	31	39
Depth (inches)	10	10	12	12	12	12	12	12
Weight (lbs)	66	66	77	77	77	88	<165	<165
Standard Cable (feet)	16							
Max Cable Length* (feet)	92	92	92	46	46	92	92	92

*It may be possible to extend the cable length beyond the figures given, if this is required please contact us for details