



## SX UV SYSTEM

### ULTRAVIOLET DISINFECTION SYSTEMS

The SX range of UV reactors are designed for high specification and high-performance applications. With a small installation and maintenance envelope an SX unit offers an easy to install solution that will fit into restricted spaces yet provide flows from 50 m<sup>3</sup>/hr up to 5000 m<sup>3</sup>/hr. The combination of a compact unit with a high flow capacity provides an ideal retrofit solution where additional disinfection stages are required.

With a wide range of configurable options, the any SX unit can be designed to meet a range of specifications and customer requirements in high specification applications such as municipal drinking water and process water for food & beverage applications

The SX units are tested to the latest regulatory requirements, giving installers and operators the knowledge that they are providing not only the most efficient solution but a fully compliant one as well.

The SX range of units include a number of advanced features. The automatic wiper and Twistlok™ lamps are designed to reduce maintenance intervals and to ensure that any maintenance is simpler and faster to undertake and is as safe as possible.

The SX range also features the Spectra 3 controller. Utilising the latest electronic power supplies the Spectra 3 is now more compact and simpler to operate. It includes full integration to any BMS system operating a number of configurable inputs and outputs. The SX also has the facility to connect to any MODBUS or PROFIBUS network.

### Performance and Installation

- Smaller installation footprint
- Horizontal or vertical installation
- Efficient and enhanced power control
- Higher performance
- Simpler and faster to maintain
- Increased safety
- Modbus® connectivity

Features	Standard Chamber Specification	Options
Lamp Life	9,000 hours	
Lamp design	TWISTLOK™ Quick Release, Enhanced Safety-Medium Pressure	
Lamp and Wiper Access	Single Ended Access	
Design Pressure	10 Barg Design (15 Barg Test)	16 Bar (All models excluding SX-1873-30)
Number of Sensors	1-off per 2 lamps (except SX-1250 which has 1 per 3 lamps)	
UV Intensity Monitoring	Validated ONORM UV Monitor - AT-900 (Calibrated)	
Variable Power	100% to 30% Power (Automatic Dose Pacing)	
Connection Type	PN10 Flanged (EN1092-1-BS4504)	PN16 Flanged (EN1092-1-BS4504), ANSI 150, AS 4087 (PN16), JIS B2220 - 10K (Triclamp connections for SX-115-4 & SX-215-6)
Generator Material	316 L Stainless Steel	Superduplex (25Cr) Stainless Steel
Internal Surface Finish	0.8 Ra	0.4 Ra (SX-115-4, SX-215-6, SX-225-8 & SX-425-10)
Quartz Type	High Purity Quartz Sleeves	TiO2 Doped quartz
Cleaning system	Automatic Wiper System (SX-635-15, SX-850-20, SX-1250-20 & SX-1873-30)	Optional (SX-115-4, SX-215-6, SX-225-8 & SX-425-10)
Temperature Probe	AT-487 (PT-100)	
Vent Port	Included	
Drain Port	Included	
Ingress Protection (UV Chamber)	IP55	
Installation	Horizontal or Vertical (Lamps must be Horizontal)	

Features	Standard Control Panel Specification	Options
Material	Epoxy Coated Mild steel-RAL 7035	Stainless Steel (304)
Control Type	Spectra 3 Microprocessor	
Lamp Driver	Electronic Ballast	
Ingress Protection	IP54	IP56
Ventilation	Forced Air cooled (Fan)	
Interface	Spectra Membrane	Spectra Touch
Communication	Modbus (RS-422/RS-485)	Profibus DP
Protection	Door Locked Isolator	
Operating Temperature	Max Working Ambient +45°C	
Digital Inputs	3-off selectable	Additional 3-off selectable
Digital Outputs	3-off selectable	Additional 3-off selectable
Analogue Inputs	1-off selectable	Additional 1-off selectable
Analogue Outputs	1-off selectable	Additional 1-off selectable



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