



VX RANGE - MAXI ULTRAVIOLET TREATMENT SYSTEMS

DESIGNED FOR INDUSTRIAL APPLICATIONS

Evoqua's VX Maxi from the ATG™ UV family of products is designed for superior treatment of industrial water in applications requiring flexibility and performance. The environmentally friendly, chemical-free technology is fully configurable to meet individual system needs whether the application is aquaculture, wastewater, cooling loops or any general industrial process.

HIGHLY EFFICIENT & COST EFFECTIVE

Using energy efficient UV light sources and the latest variable power electronic ballasts, Evoqua's VX Maxi provide cost-effective and efficient treatment with flexible options for easy integration. The low pressure, high output lamps, combined with the variable power option allows the operator to minimize OPEX costs while still delivering the required UV treatment effectiveness.

The range of configurable options, from surface finishes to pipe connections allows the user to configure the product easily to their specific requirements. Where required, the highly efficient automatic wiper system can be added as an option, reducing maintenance downtime even further for applications with poor water quality.

SOPHISTICATED CONTROL SYSTEM

The Spectra 3 control system is a sophisticated microprocessor designed for control flexibility and system integration. With a range of user-selectable analog, and digital input and outputs, combined with Modbus® capability allow simple connection to a SCADA or BMS system. The Spectra 3 also provides a data logging facility with the ability to remotely check the performance from a mobile phone or tablet when the equipment is connected to the internet.

INCREASE PRODUCTION UPTIME

Operators will benefit from the patent pending* TwistLok™ lamp configuration, combining a simple lamp connection with a mechanical safety interlock for safe and speedy lamp replacement. In addition, the V Clamp quartz seal system ensures that the seal can be fitted accurately without stressing the quartz sleeve or having a leaking seal.

The systems use the latest AT-900 UV intensity system, traceable to NIST standards to provide an effective method of monitoring performance, ensuring confidence in the system operation at all times. Using the feedback from the AT-900 also enables the power to the lamps to be varied depending on the quality of water to be treated, allowing power savings and increased lamp life for larger systems.

SPECIFICATIONS

- Efficient and enhanced power control
- High performance, low energy consumption lamps
- Simple, fast, and reliable maintenance
- Enhanced performance monitoring by sophisticated control system
- Up to 1800 m³/hr maximum flow rate
- Built in safety features
- MODBUS or PROFIBUS connectivity

*Patent pending in some countries.

CHAMBER SPECIFICATIONS

| Features | Standard Chamber Specification | Options |
|-------------------------------------|---|------------------------|
| Lamp Life | 12,000 hours | |
| Lamp design | TwistLok™ Quick Release, Enhanced Safety | |
| Lamp and Wiper Access | Single Ended Access | |
| Design Pressure | 10 Barg Design (15 Barg Test) | |
| Sensors | 1 Monitor Package Incl NIST UV Sensor + PT100 Temp Sensor | |
| Variable Power | 100% to 60% Power (Automatic Dose Pacing) | |
| Connection Type | EN 1092-1 (PN10) | |
| Connection Orientation | U Type (Top-Top) | Z Type (Top-Bottom) |
| Material of Construction | 316L Stainless Steel | |
| Internal Surface Finish | 1.6 Ra | 0.8 Ra |
| Internal/External Surface Treatment | Machine Polish | |
| Quartz Type | High Purity Quartz Sleeves | |
| Installation/Mounting | Adjustable Inlet/Outlet Orientation | |
| Wiper System | Not as standard | Automatic Wiper System |
| Vent & Drain Port | Yes | |
| Seals | EPDM | |

CONTROL PANEL SPECIFICATIONS

| Features | Standard Control Panel Specification | Options |
|-------------------------|---|---|
| Material | Epoxy Coated Mild steel - RAL 7035 | Stainless Steel (304) |
| Mounting | Wall Mounted (excluding VX-32340-20) | Floor Standing (dependent on Supply Voltage) |
| Control Type | Microprocessor | |
| Power supply | Electronic Ballast | |
| Ingress Protection | IP54 | IP56 |
| Environmental Control | Forced Air cooled (Fan) Thermostat controlled anti-condensation heater | |
| Interface | Spectra Touch | |
| Communication | Modbus (RS-422 / RS-485) | Profibus DP |
| Protection | Door Locked MCCB Isolator | |
| Operating Temperature | Max Working Ambient +40°C | |
| Digital Inputs/Outputs | 6 Inputs/ 6 Outputs | |
| Analogue Inputs/Outputs | 2 Inputs/ 2 Outputs | |
| Supply Voltage | 380-415V 3PH + N (50/60 Hz) | 380-415V 3PH (50/60 Hz) 440V 3PH (50/60 Hz) 690V 3PH (50/60 Hz) |
| Cable Length | 10m | 15m, 30m |



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