

Vioflow Low UVT System

Technical Specification



ULTRAOUA
UV DISINFECTION SYSTEMS

Product Features

- Perfect for wastewater, secondary and reuse
- Tool-free lamp and quartz sleeve changing
- CFD optimised with minimum head loss
- ULTRAWIPE™ wiper system to maintain consistent treatment levels
- SCADA integration possible
- High-grade electropolished stainless steel AISI 316L chamber internal walls for increased efficiency (up to 30% energy saving)



Wastewater

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 **Daro**
UV SYSTEMS

Vioflow Low UVT System

| UV SYSTEM | VF1-350SS LUVT | VF4-350SS LUVT | VF6-350SS LUVT | VF8-350SS LUVT | VF12-350SS LUVT | VF18-350SS LUVT | VF28-350SS LUVT | VF44-350SS LUVT | VF56-350SS LUVT | |
|----------------------------------|---|----------------|--|-----------------------------------|-----------------|-----------------|---|-----------------|-----------------|--|
| Approvals | CE (option UL/ cUL) | | | | | | | | | |
| UV LAMPS & MONITORING | | | | | | | | | | |
| Lamp Number | 1 | 4 | 6 | 8 | 12 | 18 | 28 | 44 | 56 | |
| ULTRATHERM™ LPHO Lamp | 350W | | | | | | | | | |
| Guaranteed Lamp Lifetime | 16,000 hours | | | | | | | | | |
| UV Monitoring | UV Intensity sensor ÖNORM M5873 certified SS316L | | | | | | | | | |
| Variable Power | Automatic ULTRADOSE™ pacing 50-100% | | | | | | | | | |
| UV CHAMBER | | | | | | | | | | |
| Connection Size | DN100 | DN100 | DN150 | DN150 | DN200 | DN300 | DN400 | DN500 | DN500 | |
| Connection Type | EN-1092 type 01A PN10 (option PN16) | | | | | | | | | |
| Design Pressure | 10 bar (option 16 bar) | | | | | | | | | |
| Chamber Material | SS316L/ 1.4404 (option Super Duplex) | | | | | | | | | |
| Internal & External Finish | Electropolished inside/out | | | | | | | | | |
| Lamp/Wiper Access Single Ended | Yes | | | | | | | | | |
| Quartz Type | High purity fused quartz transmittance >95% | | | | | | | | | |
| Mounting | Free standing (option horizontal SS316 stand) | | | | | | | | | |
| ULTRAWIPER™ System | Automatic mechanical with PTFE/fiber rings (electrical) | | | | | | | | | |
| Temperature Probe | 1x PT100 | | | | | | | | | |
| Vent & Drain Ports | 1" Drain port | | | | | | | | | |
| Ingress Protection | IP65 | | | | | | | | | |
| Installation | Horizontal/vertical | | | | | | | | | |
| Minor Wetted Parts | FDA approved PTFE, PVDF, VITON | | | | | | | | | |
| CONTROL CABINET | | | | | | | | | | |
| Cabinet Material | GFRP (option SS304/SS316) | | | | | | Powder painted steel (option SS304/ 316L) | | | |
| Cabinet Sizes (H x W x D) | 400x600x300mm | 800x600x300mm | 800x600x300mm | 1000x750x320mm | 1000x750x320mm | 1000x1250x320mm | 1000x1250x320mm | 2200x1000x500mm | 2200x1000x500mm | |
| Cable Length | 4 meters (max. 30 meters) | | | | | | | | | |
| Installation & Ambient | Wallmount 0-40 °C | | Wallmount 0-40 °C non-condensing | | | | | | | |
| Ingress Protection | IP65 | | IP54 (option IP65/NEMA4X) | | | | | | | |
| Thermal Control | Passive dissipation (Option Fan/AC/Heat exchanger) | | Fan with filter (option AC/Heat exchanger) | | | | | | | |
| Control Logic | Microprocessor | | PLC | | | | | | | |
| Interface/HMI | 4 Line LCD with system state indication | | 7" ULTRATOUCH™ | | | | | | | |
| UV Dose | On HMI, UV Intensity | | On HMI, actual UV dose and target UV dose | | | | | | | |
| SCADA Communication | MODBUS RTU | | MODBUS TCP/IP/PROFINET | | | | | | | |
| Analogue 4-20mA I/O | Flow input/UV irradiance output | | Flow input/UV dose output (option UVT input) | | | | | | | |
| External Wiring | Remote ON/OFF System Status, Alarm & Warning | | Remote ON/OFF, Safety ON/OFF, System Status, Pre-alarm and Alarm | | | | | | | |
| Event Log | Alarms | | UV Dose, UV Intensity, Flow | | | | | | | |
| Power Consumption | 0.4 kW | 1.5 kW | 2.3 kW | 3.0 kW | 4.5 kW | 6.8 kW | 10.5 kW | 16.5 kW | 21.0 kW | |
| Power Supply | 230VAC +/- 10% +N+PE 50/60Hz | | | 3x400VAC +/- 10% +N+PE 50/60Hz | | | | | | |

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