

Viopure Validated System

Technical Specification

ULTRAOUA
UV DISINFECTION SYSTEMS

Daro
UV SYSTEMS

Product Features

- ÖNORM M 5873-1 – 3rd party bioassay validation
- SWIRLFLOW™ technology enabling 90% hydraulic efficiency
- CFD optimised with minimum head loss
- Automatic dose pacing to deliver unrivalled efficiency
- Wiper system to maintain consistent treatment levels
- High-grade electropolished stainless steel AISI 316L chamber internal walls
- 16,000-hour lamp lifetime
- SCADA integration possible
- Tool-free lamp and quartz sleeve changing



Drinking Water

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UV SYSTEMS

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UV SYSTEM	VP1-220SSV	VP3-220SSV	VP4-220SSV	VP6-220SSV	VP6-350SSV	VP8-350SSV	VP12-350SSV
Approvals	ÖNORM M5873-1, CE (option UL)						
UV LAMPS & MONITORING							
Number of Lamps	1	3	4	6	6	8	12
ULTRATHERM™ LPHO Lamp	220W	220W	220W	220W	350W	350W	350W
Guaranteed Lamp Lifetime	16,000 hours						
UV Monitoring	UV Intensity sensor ÖNORM M5873 certified SS316L						
Variable Power	ULTRADOSE™ pacing 50-100%						
UV CHAMBER							
Connection Size	DN100	DN100	DN150	DN250	DN300	DN350	DN400
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						
Quartz Type	High purity fused quartz transmittance >95%						
Mounting	Free standing (option horizontal SS316 stand)						
ULTRAWIPER™ System	Not available	Automatic mechanical with PTFE/fiber rings (electrical)					
Temperature Probe	PT100						
Vent & Drain Ports	1" (sampling ports 1/4")						
Ingress Protection	IP65						
Installation	Horizontal/vertical						
Minor Wetted Parts	FDA approved PTFE, PVDF, VITON						
CONTROL CABINET							
Cabinet Material	GFRP (option SS304/SS316)	SS304 (options SS316, painted steel, GFRP)					
Cabinet Sizes	400x600x210mm	800x800x300mm	800x800x300mm	800x800x300mm	800x800x300mm	1000x800x300mm	1000x800x300mm
Cable Length	4 meters (max. 30 meters)						
Installation & Ambient	Wallmount 0-40 °C	Wallmount 0-40 °C non-condensing					
Thermal Control	Passive heat dissipation (option AC/Heat exchanger)	Fan with filter (option AC/Heat exchanger)					
Control Logic	Microprocessor	PLC Siemens (option, Allen Bradley)					
Interface/HMI	4 line LCD - system state indication	7" ULTRATOUCH™					
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)					
Ingress Protection	IP65	IP54 (option IP65/NEMA4X)					
Event Log	Alarms	UV dose, UV intensity, Flow					
Power Consumption	0.2 kW	0.7 kW	1.0 kW	1.4 kW	2.3 kW	3.0 kW	4.5 kW
Power Supply	230VAC +/- 10% +N+PE 50/60Hz					3x400VAC +/- 10% +N+PE 50/60Hz	

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