

Viopure Open Channel UV System

Technical Specification

ULTRAOUA
UV DISINFECTION SYSTEMS

Product Features

- Suitable for almost any channel dimensions
- Multiple configurations available due to modular construction
- Inclined layout allows greater exposure in a compact footprint
- 16,000-hour lamp lifetime, with CFD optimised lamp layout
- Wiper system to maintain consistent treatment levels
- Available in wall-mounted configuration
- Easy access and maintenance via sealed top compartment
- Control cabinet with live telemetry for UV fluence (dosage), UVT, flow and power level readings
- High-grade electropolished stainless steel AISI 316L construction increases energy efficiency up to 30%
- Optional flow control features including ultrasonic water level sensing, weir penstocks or sluice gates



Wastewater



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 **Daro**
UV SYSTEMS

Viopure Open Channel UV System

Vertical Configuration

SYSTEM CHARACTERISTICS

LAMP CONFIGURATION	Vertical
MATERIAL	Electropolished SS 316L, Super duplex
CONFIGURATION	Modular
PRESSURE RATING	Gravitational
FLOWRATES	5 m³/h (22 GPM) – 16,000 m³/h (100 MGD)
UV TRANSMISSION (UVT%)	20 – 100%
LAMP TYPE	ULTRATHERM™ Low-pressure High Output (LPHO)
LAMP LIFETIME	Guaranteed 16,000 hours

CONTROL CABINET CHARACTERISTICS

ENCLOSURE MATERIAL	Painted steel, SS304, SS316L, GFRP
UV INTENSITY SENSOR	ÖNORM certified, PTFE, 360 degrees
SLEEVE WIPING	Automatic ULTRAWIPER™
SCADA CONNECTION	Profibus, Profinet, MODBUS TCP/IP
ENCLOSURE RATING	IP54, IP65
LAMP DRIVER TYPE	Electronic variable output
SYSTEM VOLTAGE	1x230V, 3x400V+N+Pe +/- 10%, 47-63Hz (other optional)
UV DOSE PACING	Standard

Inclined Configuration

SYSTEM CHARACTERISTICS

LAMP CONFIGURATION	Inclined
MATERIAL	Electropolished SS 316L, Super duplex
CONFIGURATION	Modular
PRESSURE RATING	Gravitational
FLOWRATES	5 m³/h (22 GPM) – 16,000 m³/h (100 MGD)
UV TRANSMISSION (UVT%)	20 – 100%
LAMP TYPE	ULTRATHERM™ Low-pressure High Output (LPHO)
LAMP LIFETIME	Guaranteed 16,000 hours

CONTROL CABINET CHARACTERISTICS

ENCLOSURE MATERIAL	Painted steel, SS304, SS316L, GFRP
UV INTENSITY SENSOR	ÖNORM certified, PTFE, 360 degrees
SLEEVE WIPING	Manual, automatic ULTRAWIPER™
SCADA CONNECTION	Profibus, Profinet, MODBUS TCP/IP
ENCLOSURE RATING	IP54, IP65
LAMP DRIVER TYPE	Electronic variable output
SYSTEM VOLTAGE	1x230V, 3x400V+N+Pe +/- 10%, 47-63Hz (other optional)
UV DOSE PACING	Optional