



Wastewater Treatment CLG 1000 - Open Channel UV *Simply performing*

As standards for wastewater reuse become stricter, municipalities need effective effluent disinfection treatment systems

Following several treatment stages, municipal effluent undergoes tertiary filtration and disinfection. While disinfection can be carried out using chemicals, its hazardous impact on the environment and the handling risks presents major challenges. That's why municipalities are opting for chemical-free UV treatment.

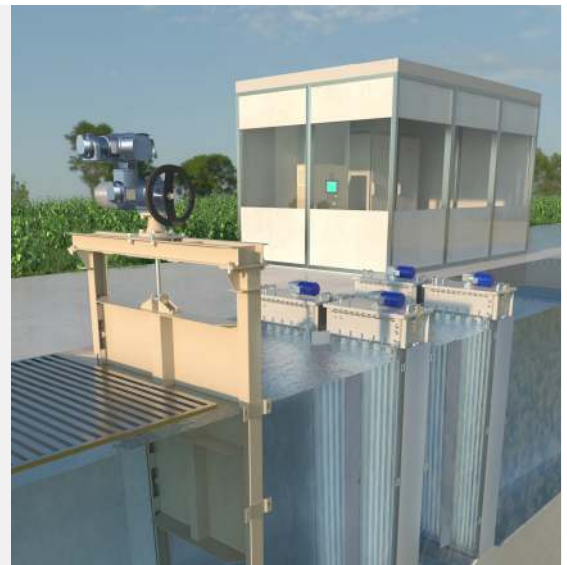
Current UV solutions feature numerous lamps which consume energy and are complex to replace. The lack of adequate monitoring and control causes inefficient water treatment.

*All
that's
about to
change.*

Atlantium's UV Wastewater Treatment System

With successful proven record in closed vessels for wastewater treatment around the world, our low pressure, high intensity system features an optimized design delivering enhanced performance, based on Atlantium's years of experience in designing, providing, and servicing thousands of UV systems.

The design is based on the most powerful validated CFD-I process, the UV system serves different flow rates and water conditions.



Atlantium's UV system is designed with **optimized flow adjustment structure** for eliminating escape route and increasing system's efficiency, and with **unique sensors** to continuously monitor UVT levels and lamp operational indicators, which ensure reliable and efficient high disinfection levels - **without the headache!**

UV dose = UVT x flow rate x lamp output

Designed to overcome challenges

The smart modular design ensures high energy efficiency and enables easy maintenance



Optimal flow adjustment structure



Easy access for lamp replacement



Lamp cleaning mechanism enables easy maintenance



Lamp ON indicator

Built-in UVT sensors indicate which lamp needs to be replaced

Easy replacement of lamps - without removing the entire bank



Advanced and powerful LP high intensity 1000W lamps = optimal performance with fewer lamps and smaller foot print

Power adjusted from 50% to 100% according to ongoing water quality monitoring



Vertical installation expresses in high energy efficiency - Less UV photons escape from the water



Water level sensor

Atlantium's field-proven Hydro-Optic™ (HOD) UV solution takes water safety to new levels, providing municipalities with sustainable and measurable treatment. As world leaders in UV water treatment, we have a proven track record of providing municipalities with sustainable, long-term, and high-performance systems.