SENTINEL® UV & UV/AOP Disinfection Systems

Lowest OPEX costs in the smallest available footprint

DE NORA
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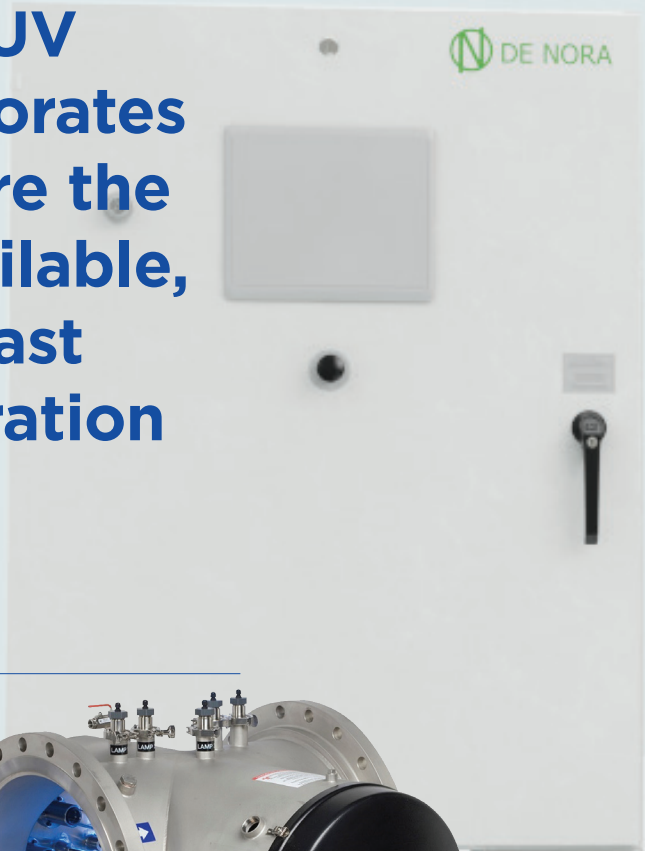
Based on the expertise and leadership from 30 years in UV disinfection, the latest SENTINEL® UV System design incorporates innovations that ensure the smallest footprint available, low operating costs, fast installation, easy operation and longer lamp life.



Why Choose De Nora?

- **MOST COMPACT DESIGN AVAILABLE: 30% SAVING**
- **SIMPLE MAINTENANCE, OPERATION AND INSTALLATION**
- **THE EXPERTS IN UV DISINFECTION AND ADVANCED OXIDATION**
- **DESIGNED TO REDUCE OPEX**
- **MEETS REGULATORY APPROVALS**

SENTINEL SN24

SENTINEL SN12

SENTINEL SN48

SENTINEL UV disinfection systems provide safe and clean drinking water. Over 30 years ago, experts from De Nora made the initial discovery of the effectiveness of UV light for treating protozoa, including *Cryptosporidum parvum* and *Giardia lamblia*.

SENTINEL UV Reactors, apply a carefully controlled dosage of UV light to the drinking water without the use of any chemicals and formation of disinfection byproducts. They can be combined with an oxidant for Advanced Oxidation Processes to treat complex contaminants.

Efficient

Electronic ballast: most efficient design

Continuous calculation of UV setpoint to optimize UV dose

Optimized lamp turndown to 30% for minimized energy consumption

Medium-Pressure High-Output Lamps

High power density, 4-20 kW per lamp

Effective

Validations and certifications include:

- US EPA UVDGM
- DVGW Certified UV Sensors for Drinking Water Systems

Validation provides equations for dose vs. UV Intensity, flow rate and UV Transmittance

UV Intensity Sensors for Continuous Monitoring (one per lamp)

Footprint

Compact power distribution and control system

Maintenance and Operation

Dry well mount for ease of calibration/maintenance

Cleaning System: Automatic chemical-free Quickwipe system

Safe: automatic emergency shut down

Automated Operation and Control System: PLC-based operation and control

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