



UV disinfection systems

OptiLon® series

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OptiLon series

Key features

Certified and validated disinfection performance

The UV disinfection systems of the OptiLon series are microbiologically tested in accordance with the latest regulatory standards and norms. This makes them suitable for the highest demands in drinking water disinfection.

Wiped system for low transmissions

The OptiLon series features a patented HybridWiper® system. Individually combining different wiper elements achieves optimal cleaning of the lamp sleeve.

Powerful for large flow rates

The OptiLon series can cover a wide range of certified flow rates from one cubic meter per hour to more than 2,000 cubic meters per hour.

Newest lamp technology for maximum performance

Intelligent Perfect Performance Tool (PPT) UV lamps provide maximum power output of up to 680W (OptiBoost), and optimum efficiency due to permanent and continuous dimming (dynamic dimming). Integrated thermal management enhances the lamp's lifespan by ensuring it always works in the optimal operating range, even in very cold water.

Innovative and patented flow concept

The combination of a specifically developed twist unit, L-shape, and flow guidance guarantees a perfect distribution of the water in the irradiation chamber. This flow concept ensures extremely efficient disinfection performance with low pressure loss.

Revolutionary 7-inch graphic display as standard

The 7-inch graphic display features a modern display, menu navigation, and innovative monitoring and control options, such as dose (fluence) control and remote maintenance via Modbus TCP/IP.

Service and maintenance friendly

The OptiLon series was designed for ease of service. The wiper cage can be removed completely assembled, and the lamps and sleeves can be serviced without dismantling other components such as the motor.



Certifications and validations

The flexibility of the OptiLon series enables it to be used for drinking water treatment.

Our UV disinfection systems in the OptiLon series have been validated according to the latest DIN 19294-1:2020 and ÖNORM M5873-1:2020 and are approved for use in drinking water applications by the following certifications:



The new benchmark
for wiped UV
disinfection systems

OptiLon series

7-inch graphic display as standard

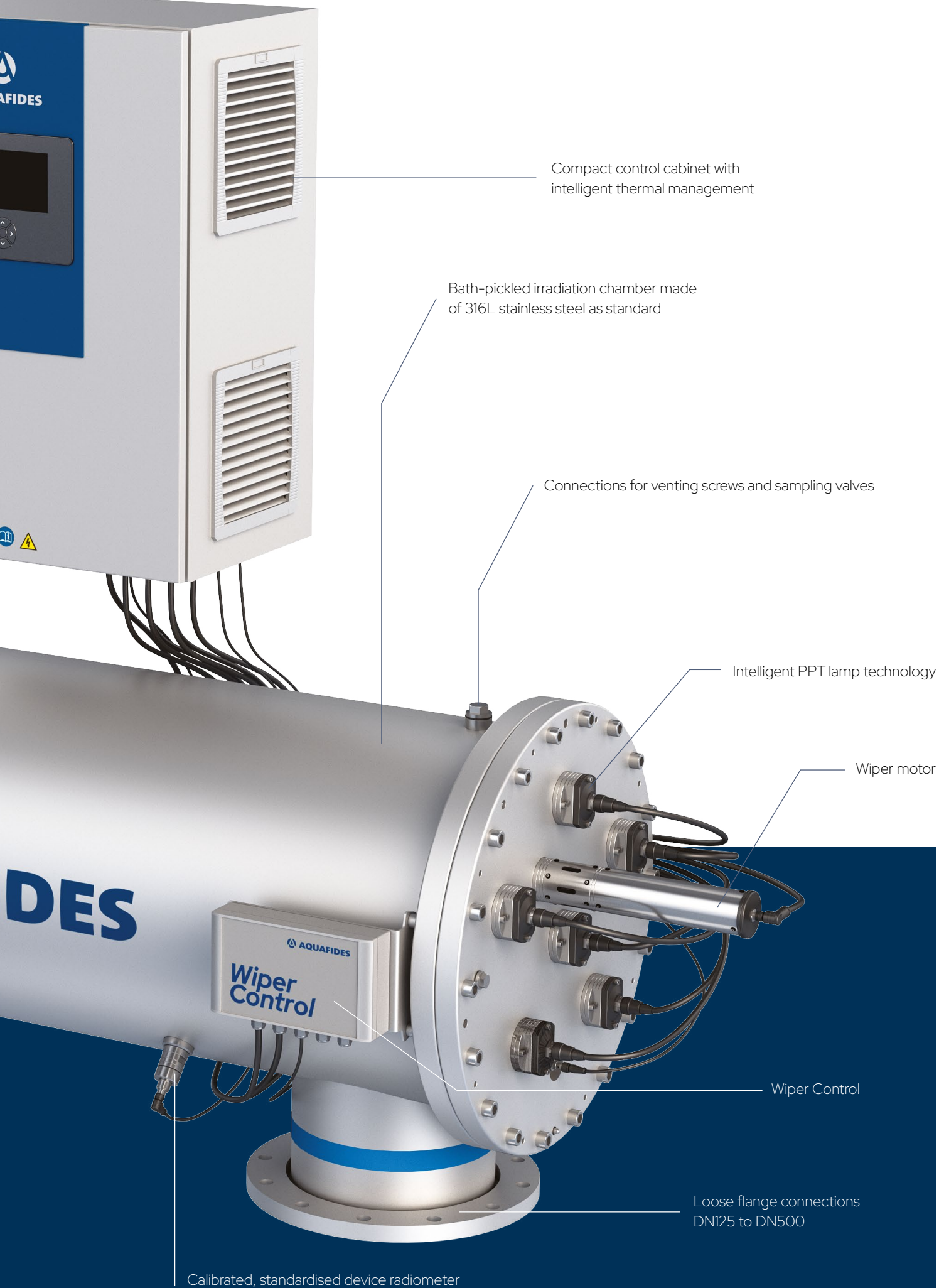
Wall-mounted cabinets with protection class IP54 up to IP55

L-shape

Innovative flow concept with patented twist unit

Options

	Standard version	Optional
Pressure level	6 / 10 bar	10 / 16 bar
Temperature sensor	✓	–
Valve control	–	✓
Cable length	9 m	15 , 25, 35 m
Material of control cabinet	Powder-coated steel	Stainless steel 304 (A2), stainless steel 316L (A4)
Protection class of control cabinet	IP54	IP55
Display, operation	7-inch graphic display	–
Communication	Potential-free and 4-20mA	Modbus TCP/IP, PROFINET, PROFIBUS
Lamp power	Static	Dynamic (dimming)



The most advanced control panel

7-inch graphic display

The 7-inch graphic display from AQUAFIDES revolutionises the display and menu navigation for UV disinfection systems with innovative control and regulation options. It includes software upgrades as well as a comprehensive renewal of the control cabinet technology to provide extended functions and support a wide range of features.

Perfect overview and control

Dose (fluence) display and dimming

The dose display provides information about the disinfection performance of the system. The lamp output can be precisely adjusted to control the dose as required, which ensures economical operation.

Extensive control and monitoring options

The display offers extensive connectivity and control options through numerous inputs and outputs. It supports the processing of various measurement signals and enables full remote maintenance via Modbus TCP/IP, for example.

Integrated maintenance management

Through the standard 7-inch graphic display, wiper cycles, wiping, and maintenance intervals can be managed at one glance. This makes the maintenance process much easier for the operator and significantly extends the service life of the individual components.

Key features:

- Completely new user interface
- Control pad with haptic feedback
- Static and dynamic dimming
- Comprehensive control and monitoring functions
- Updateable software
- Remote maintenance
- Information at a glance
- Sophisticated authorisation system



Sustainable and efficient

Dimming the UV lamps


The systems offer power control, which makes it possible to reduce the intensity of the UV lamps to increase energy efficiency and save operating costs.

- Energy savings of up to **50%** thanks to reduced lamp intensity
- Optimum UV dosage (**400 J/m²**) for efficient disinfection
- Automatic power adjustment based on external flow data

AQUAFIDES takes responsibility for a sustainable future.

OptiLon series

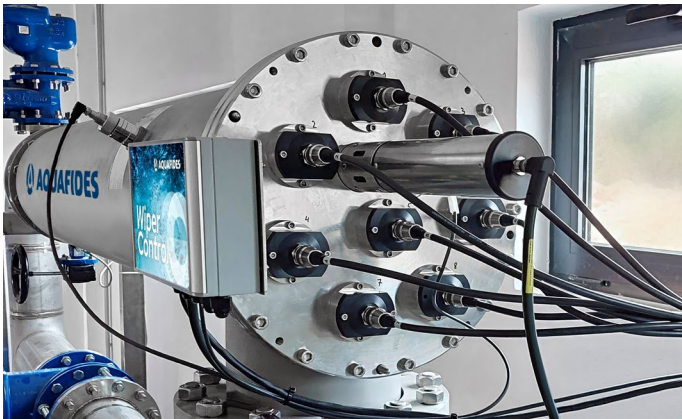
Overview

Type	UV lamps	Flow rate (m ³ /h)* [T ₁₀ mm=98%]	Connection dimension	Chamber dimensions (LxHxD)	Cabinet dimensions (LxHxD)
 1 AF640	1	87.2	DN125 PN10/16	2088 x 398 x 256 mm	400 x 400 x 200 mm
2 AF640	2	221.9	DN200 PN10/16	2098 x 484 x 324 mm	500 x 700 x 260 mm
 3 AF640	3	376.1	DN250 PN10/16	2099 x 575 x 390 mm	500 x 700 x 260 mm
4 AF640	4	620	DN250 PN10/16	2113 x 575 x 508 mm	500 x 700 x 260 mm
 6 AF640	6	794.7	DN300 PN10/16	2113 x 795 x 575 mm	800 x 1000 x 400 mm
9 AF640	9	Coming soon	DN400 PN10/16	2113 x 907 x 670 mm	800 x 1000 x 400 mm
 12 AF640	12	2,078	DN500 PN10/16	2315 x 1052 x 808 mm	800 x 1000 x 400 mm

Producing high-quality water, today and tomorrow

Thousands of AQUAFIDES UV disinfection systems are in use around the world. We have a strong history of helping customers address contaminants and micropollutants in their water. Now as an affiliate of Trojan Technologies, we will continue to apply our deep expertise, customer-friendly service, and spirit of innovation to solve complex water problems and improve lives around the globe.

Visit [AQUAFIDES.com/en](https://www.aquafides.com/en) or contact us at info@aquafides.com to learn how AQUAFIDES can help you achieve your water quality objectives.



About AQUAFIDES

AQUAFIDES – an affiliate of Trojan Technologies – designs, manufactures, and supports UV water treatment systems that meet the stringent requirements for drinking water. Decades of water treatment experience coupled with a strong focus on innovation ensure our systems are reliable, easy to operate, and efficient. Driven by an unwavering commitment to customer satisfaction, our team provides expert advice on UV treatment, comprehensive service and maintenance, and prompt delivery of spare parts. Our high-quality, fit-for-purpose systems and customer-friendly service enable municipal customers to address contaminants and meet their water quality objectives reliably and effectively. Learn more at [AQUAFIDES.com](https://www.aquafides.com).



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