



UV disinfection systems

Compact series

Compact series

Key features

Certified and validated disinfection performance

The UV disinfection systems of the Compact series are microbiologically tested in accordance with the latest regulatory standards and norms. They meet the highest standards of chemical-free drinking water disinfection.

Wide range of flow rates

The Compact series can handle a wide range of certified flow rates from one cubic meter per hour up to several hundred cubic meters per hour.

High quality and operational safety

The high product quality and low switch-off points are outstanding features, which guarantee functionality and disinfection performance even at low transmissions.

Service and maintenance friendly

Our UV systems have been developed with a special focus on low-maintenance operation. Any necessary service work can be carried out easily and with few tools.

Rapid availability

With development and production based in Europe (Austria, Germany, and Switzerland), we can guarantee the security of supply and rapid availability of systems and spare parts.

Compact design

The name of the Compact series speaks for itself. Its short design is ideal for use in the often limited space available in water treatment plants.

Flexible installation options

The compact design and redundant venting and draining openings allow flexibility in installation position.

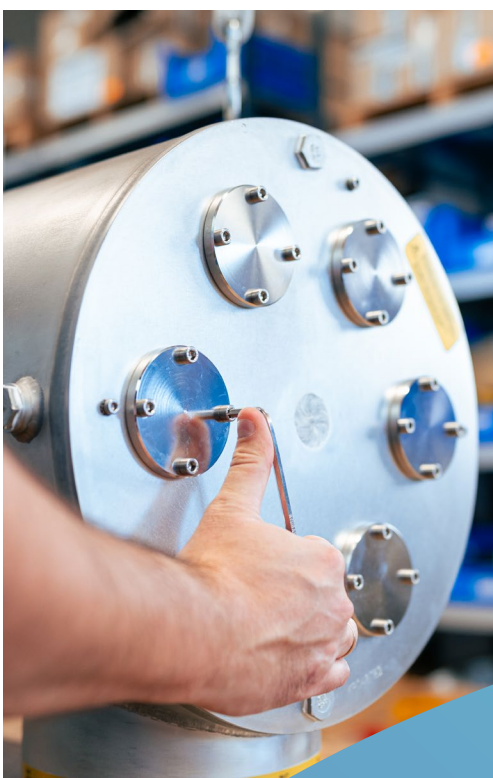




Certifications and validations

The flexibility of the Compact series enables it to be used for treating municipal water supplies.

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



Certified performance
and proven quality for
water treatment

Compact series

Single-lamp systems

Pipe thread or loose flange connections

Connections for sampling valves in the inlet and outlet*

Short, compact stainless steel irradiation chamber made of 316L (A4) with minimal pressure losses*

Calibrated normed device radiometer*

Intelligent control via 4-line display as standard*

Wall-mounted cabinet with protection class IP65*

Lamp envelope tubes can be installed in from both sides*

Energy-efficient, dimmable, low-pressure UV lamps*

Z shape

* Applies to single and multi-lamp devices

Options

	Standard version	Optional
Pressure level	16 bar	–
Temperature sensor	–	✓
Valve control	–	✓
Cable length	4.3 m	9, 15, 25, 35 m
Material of control cabinet	Aluminum high-pressure die casting	–
Protection class of control cabinet	IP65	–
Display, operation	4-line display	7-inch graphic display
Communication	Potential-free and 4-20mA	Modbus TCP/IP, PROFINET, PROFIBUS
Lamp power	Static	Dynamic (dimming)

Compact series

Multi-lamp systems

Compact control cabinet with intelligent thermal management

Lamp envelope tubes can be installed in from both sides*

Loose flange connections DN80 to DN300

U shape

Bath-pickled irradiation chamber made of 316L stainless steel as standard*

Vertical and horizontal installation possible*

Safe disinfection even at very low transmissions*

* Applies to single and multi-lamp devices

Options

	Standard version	Optional
Pressure level	10 bar	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	4-line display	7-inch graphic display
Communication	Potential-free and 4-20mA	Modbus TCP/IP, PROFINET, PROFIBUS
Lamp power	Static	Dynamic (dimming)

The most advanced control optional

7-inch graphic display

The optional 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.

Overview and control down to the last detail

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

The continuous recording and display of maintenance intervals, hours, historical sensor data, and much more supports the operator in maintaining and servicing the system.

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.

Compact series

Overview

	Type	UV lamps	Flow rate (m³/h*) [T ₁₀ mm=98%]	Connection dimension	Chamber dimensions (LxHxD)	Cabinet dimensions (LxHxD)
	1 AF5	1 x 45 W	4.0	R 1" (DN25) PN10/16	621 x 265 x 129 mm	300 x 200 x 120 mm
	1 AF90	1 x 90 W	9.3	R 6/4" (DN40) PN10/16	1070 x 265 x 129 mm	300 x 200 x 120 mm
	1 AF200	1 x 200 W	18.6	R 6/4" (DN40) PN10/16	1070 x 265 x 129 mm	300 x 200 x 120 mm
	1 AF300	1 x 300 W	21.3	DN65 (2-1/2") PN10/16	1134 x 366 x 168 mm	300 x 200 x 120 mm
	1 AF400	1 x 400 W	45.7	DN80 (3") PN10/16	1584 x 367 x 168 mm	300 x 200 x 120 mm
	2 AF300	2 x 300 W	55.8	DN80 PN10/16	1134 x 306 x 2060mm	700 x 500 x 260 mm
	3 AF300	3 x 300 W	101.2	DN100 PN10/16	1134 x 361 x 256 mm	700 x 500 x 260 mm
	4 AF300	4 x 300 W	165.0	DN150 PN10/16	1134 x 432 x 324 mm	700 x 500 x 260 mm
	6 AF300	6 x 300 W	232.6	DN200 PN10 or 16	1134 x 500 x 390 mm	800 x 800 x 300 mm
	3 AF400	3 x 400 W	201.4	DN150 PN10 or 16	1584 x 361 x 256 mm	700 x 500 x 260 mm
	4 AF400	4 x 400 W	273.0	DN200 PN10 or 16	1584 x 432 x 324 mm	700 x 500 x 260 mm
	6 AF400	6 x 400 W	470.9	DN250 PN10 or 16	1584 x 500 x 390 mm	800 x 800 x 300 mm
	8 AF400	8 x 400 W	580.3	DN250 PN10 or 16	1592 x 550 x 440 mm	800 x 800 x 300 mm
	12 AF400	12 x 400 W	653.3	DN300 PN10 or 16	1584 x 680 x 532 mm	800 x 1,000 x 400 mm

*Specified flow rate for a UV dose of 400 J/m² in accordance with DVGW W 294-2, with a transmission of T₉₀=98% (mm) / T₉₀=81.7% (mm)/ SAK=0.88. Devices validated according to DIN 19294-1:2020 / ÖNORM M 5873-1:2020. Certified according to DVGW, ÖVGW, SVGW, NIPH, ACS. Technical changes reserved.

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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