



AQUAFIDES

CERTIFIED UVC DISINFECTION

WATER TREATMENT YOU CAN TRUST

A close-up photograph of a woman with dark hair and a blue beaded necklace drinking water from a decorative metal fountain. She has her eyes closed and a peaceful expression. The fountain is ornate, and a stream of water is falling into her cupped hands. The background is a soft-focus outdoor setting.

YOUR SOURCE FOR SAFE DRINKING WATER

Water. It sustains us.

It hydrates our bodies, nourishes our brains, and keeps us balanced and healthy. But when it's not disinfected, it puts our safety at risk. The Swiss-engineered Aquafides UV Disinfection System helps neutralise the bacteria and viruses in your drinking water – and protect the health of your customers and your community.

CLEAN. SAFE. PURE. AQUAFIDES.



DISINFECT WITH THE POWER OF THE SUN

In sufficient doses, different types of UV radiation affect bacteria and viruses. UV-C radiation interferes with bacteria and viruses at the DNA level. Penetrating the outer structure of the cell, it alters the molecule, causing cell death and preventing reproduction. The Aquafides Certified UVC Disinfection System uses the same principles as the sun to inactivate pathogens in drinking water, cutting down dependence on high doses of chemicals, improving taste and reducing environmental impact.



HIGH PERFORMANCE FOR LOW-TRANSMISSIVITY SITUATIONS

Transmissivity is a measure of effective distribution of UV radiation in water. The higher the transmissivity characteristics, the more UV can be delivered, and the easier it is to eliminate harmful bacteria. The Aquafides UVC system is designed to be effective in low-transmissivity scenarios like heavy rainfall and spring thaws, maximizing UV radiation exposure to ensure clean drinking water in even the most challenging situations.



ADAPTED TO YOUR SPECIFIC NEEDS

To ensure you have the solution that's an exact fit with your requirements, the Aquafides team of distributors, dealers and representatives will define your system requirements based on seasonal and weather-related variations in your location. Aquafides systems are used in a wide variety of applications including fountains, central water plants, pump stations, snow making, marine, food and beverage and industrial process.

SWISS-ENGINEERED QUALITY AND DEPENDABILITY



DESIGNED FOR HIGH DEMAND

Top-quality components ensure accuracy, robust durability and serious performance in a wide range of applications and conditions. Perfectly matched components, sensors and controls add up to maximum precision and reliability. Optimized hydraulics within the reactor, along with a quartz tube/UV lamp/ballast combination, ensure balanced temperatures, long lamp life, high UVC output and low energy consumption.

PRECISE SENSORS

The DigiNorm sensor is precisely calibrated to display a wide range of UV intensity readings from 2 to 500 W/m². Sensor construction includes a single-piece opaque viewing window that provides a better UVC transmission signal and a longer sensor life. The same sensor is used across all our UV solutions, so you can operate multiple systems without duplicate inventory or complexity.

CUSTOMIZED TO YOUR NEEDS

Components are adjustable to your specific site requirements. For example, if water temperature is higher than expected, power input can be reduced to keep lamp temperatures at optimal levels. Lamps can be mounted on either the inlet or outlet side in minutes, simply by changing the lamp-flange and the blind-flange.

FULLY DIGITAL FOR ENHANCED STABILITY AND USABILITY

A combined digital control unit and UV sensor guarantee an interference-free system. A tri-colour “traffic light” display (green for normal operation, yellow for warning alarms, red for shutdown conditions) offers intuitive, at-a-glance operational status and a USB port to simplify updates.

UP TO 33% SPACE SAVINGS

The compact design has a significantly smaller footprint than other systems on the market, minimizing space requirements for the unit and piping and reducing overall cost. In most cases, no extensive structural measures are required, and there is no need for additional piping allowances. The system can be mounted horizontally or vertically, and the reactor can be turned in an axial or radial orientation for even more installation flexibility.

LOWER ENVIRONMENTAL IMPACT

For those concerned with overdosing and process by-products of chemical-based systems such as chlorine, UV is an excellent alternative that reduces both treatment time and the amount of chemicals needed, with greater consistency of output quality and dramatically lower exposure time. Chemical treatment requires continual dosing control and holding tanks to provide the required contact time. Aquafides UV systems require only the flow-through contact time to disinfect. The compact size makes it easy to use a distributed strategy for UV disinfection in end-of-the-line pump stations. This helps reduce chemical concentrations used to compensate for the distribution network pipes issues.

REDUCED SERVICE TIME

The system is specifically designed to be easy to service. Lamps can be mounted on either end of our units for the best operator access.

UV lamps can be changed quickly and easily, and quartz tubes can be removed for cleaning without having to dismount lamps; removal requires only an Allen key.

LOWER LIFE CYCLE COSTS

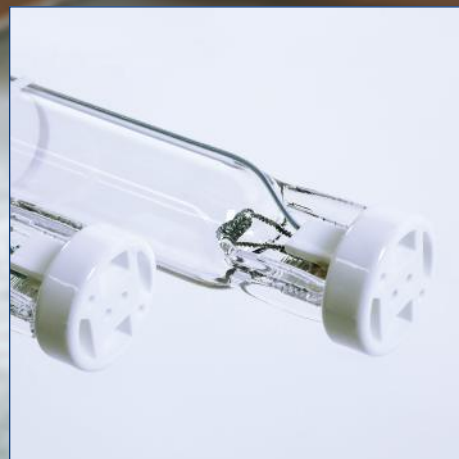
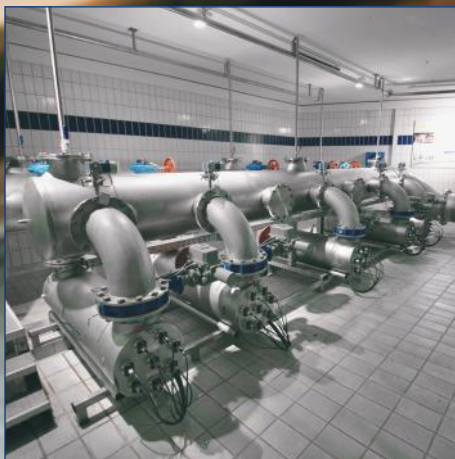
Durable, high-efficiency components that need to be replaced less often, lower servicing requirements and overall ease of use add up to less service labour and enhanced affordability.

EASY TO USE

User-friendly controls offer reliable operation. Multiple pre-alarm and alarm options inform the operator of non-optimal operation. This enables operators to make faster decisions, helping to ensure the site or process is maximising its on-spec drinking water output performance.

CERTIFIED TO THE HIGHEST STANDARDS

All our systems are fully certified to the stringent standards of DVGW, ÖVGW, ACS, and SVGW, and confirmed by the Norwegian Institute of Public Health.



A LOW-RISK, HIGH-YIELD INVESTMENT

The UVC Disinfection System is an integral part of your water treatment process. It saves space, is easy to use and service – and is made of top-quality components that meet the highest European standards and perform admirably under the most difficult transmissivity conditions.

AQUAFIDES UVC SYSTEMS DELIVER

They deliver clean water and tremendous value, remarkable reliability and the peace of mind that comes with knowing you've kept your consumers and your community safe.

MAXIMIZED LAMP EFFICIENCY

Our lamps are produced by Aquafides engineers, who use the latest technology to optimise lamp life to a variety of operating environments and applications. As part of the Katadyn Group, we also produce a variety of replacement lamps for existing Katadyn and other UV disinfection systems. Our 100% in-house testing ensures the highest standards are always met.



SAFE WATER FOR A WIDE RANGE OF APPLICATIONS

LOCAL WATERWORKS: MINIMIZE RISK AND REDUCE COST

Ideal for community waterworks and pump stations due to its small size, ease of installation and robust performance in low transmissivity applications, the Aquafides UVC system supports a distributed disinfection capability and design strategy. Quality components offer high dependability and minimal downtime, maximizing water quality and community safety.

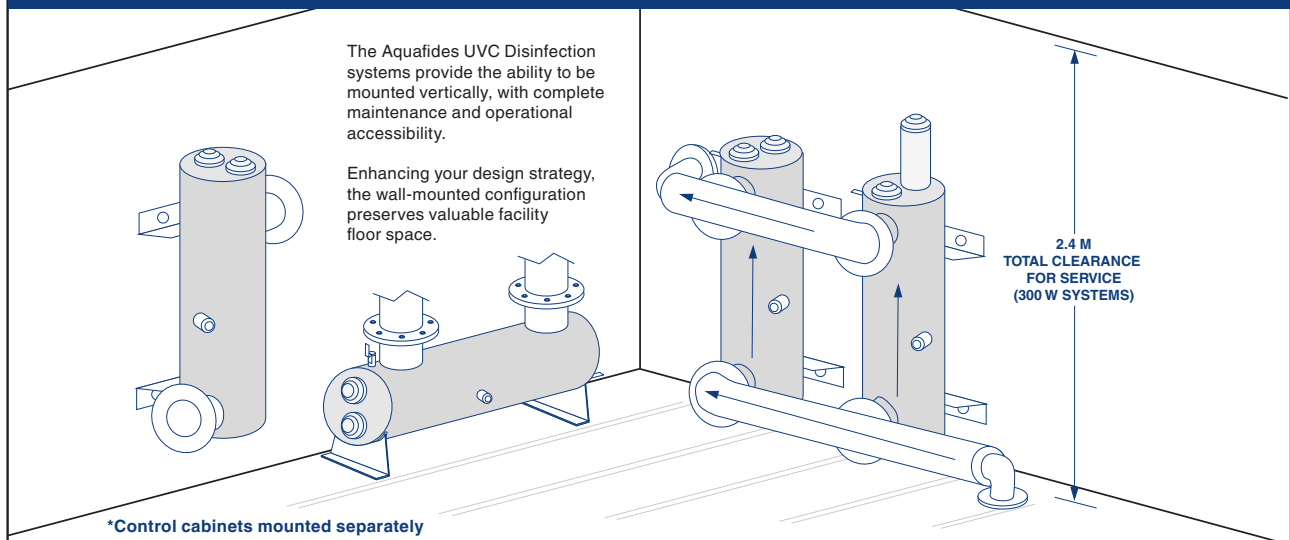
COMMERCIAL BUILDINGS: ENHANCED CUSTOMER SAFETY

The Aquafides UVC system is a dependable option for at-site disinfection for hotels, spas and restaurants in alpine, park and island locations. Extensive customization capabilities and minimal size ensure it will fit your specific needs, no matter how large or small your operation.

FOOD, BEVERAGE AND INDUSTRIAL: NO CHLORINE TASTE

Unlike chemical use or other filtration methods, UV doesn't affect the taste or impart an odour. It also offers higher flow than other types of systems; there's no need to trade flow volume for effectiveness. A compact, flexible design allows for easy implementation into your process.

ENHANCED DESIGN FLEXIBILITY WITH VERTICAL AND HORIZONTAL MOUNTING OPTION



TECHNICAL DATA

TYP	1AF45T	1AF90T	1AF300T	1AF400T	2AF300T	3AF300T	3AF400T	4AF300T	4AF400T	6AF300T	6AF400T	8AF400T	12AF400T	
Max. Flow Rate m³/h	4.32	9.45	23.6	41.4	59.3	86.9	193.5	133.0	240.1	232.6	436.5	475.0	1,879	
Validated Dose Range conc. DVGW / ÖVGW / SVGW	400J/m²												non-certified	
UVT Range (T10@254nm)	70% - > 96% depending on the system													
Water Temperature	0 - 40°C		0 - 65°C											
UV Chamber														
Number of Lamps	1	1	1	1	2	3	3	4	4	6	6	8	12	
Chamber Material	Stainless steel 1.4404													
Max. Operating Pressure (bar)	16		10											
Chamber Weight (Dry) kg	10	13	20.5	24	35	46	64	58	79	116	158	143	173	
Chamber Weight (Wet) kg	17	25	43.9	56.9	67	97	120	141	195	232	321	349	475	
Volume L	7	12	23.4	32.9	32	51	56	83	116	116	163	206	302	
Protection Class	IP 65													
Control Panel														
Ballast	Electronic Constant Output 100% (optional with variable output)													
Electrical Voltage	230 / 50										400 / 50			
Material	Aluminium				Coated Steel									
Protection Class	IP 64				IP 54									
Sensor														
1 Sensor	ÖNorm 5873-1D Certified													
Other														
Language	German, English, French, Norwegian, Swedish, Finnish													
Dimensions														
Width mm	265	265	366	366	306	361	364	432	432	500	500	555	645	
Height (Length) mm	634	1,084	1,163	1,628	1,188	1,178	1,653	1,203	1,658	1,188	1,663	1,663	1,663	
Depth mm	129	129	185	200	206	256	285	324	340	390	395	438	530	
Piping Centers mm	528	964	1,006	1,456	988	958	1,368	918	1,318	868	1,268	1,268	1,218	
Flange Connections	R 1"	R 1 ½"	DN65	DN80	DN80	DN100	DN150	DN150	DN200	DN200	DN250	DN250	DN300	

OVERVIEW CERTIFIED SYSTEM SIZING

Type	Performance in m³/h												
	5	10	20	50	100	150	200	250	300	350	400	450	500
1AF45T													
1AF90T													
1AF300T													
1AF400T													
2AF300T													
3AF300T													
3AF400T													
4AF300T													
4AF400T													
6AF300T													
6AF400T													
8AF400T													



Founded in 2008 in Switzerland, Aquafides develops and manufactures water treatment technologies for communities and organizations around the world. Our experts have decades of experience with UV disinfection, Katadyn filtration and disinfected conservation systems.

We offer a range of filtration, storage and disinfection options including:

- UVC disinfection systems
- Microfiltration with ceramic filters
- Water conservation with silver ion systems
- Spare parts and UV lamps
- Consulting, commissioning and maintenance services

AQUA (water)
FI (filtration)
DES (disinfection)
FIDES (reliability, confidence)

Protect your customers and your community with Aquafides

To find out more about our Certified UVC Disinfection Systems and how they can meet your safe water supply needs, please visit our website for a dealer or distributor near you or contact us directly.

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