

WEDECO · UV DISINFECTION FOR HOMES, BUSINESSES AND SMALL INDUSTRY

WEDECO Aquada Series

Compact single-lamp UV systems for drinking water in homes, businesses and small industrial sites, in three equipment levels and five sizes.



Overview

WEDECO Aquada is a compact UV system for disinfecting drinking water at the point of entry. It suits sites that draw water from their own source, such as a bore, tank or rainwater supply, or where mains water needs an extra barrier: homes, schools, restaurants, hotels, hospitals, campgrounds, cottages, yachts and recreational vehicles, as well as process water circuits, pools, fountains and air-conditioning systems. A single low-pressure lamp sits centrally in a polished stainless-steel chamber, and the system draws no more power than a household light bulb (35 to 85 W).

Ozone UV Solutions supplies Aquada systems as an authorised WEDECO reseller and supports them locally: sizing, installation, commissioning, servicing, lamps and spare parts.

Key features

- Three equipment levels: Altima (economical), Proxima (micro-computer controller and alarms) and Maxima (adds UV intensity monitoring)
- Five sizes per level, from 0.73 to 10.1 m³/h at a UV dose of 400 J/m²
- Biodosimetrically tested by the Hygiene Institute of the University of Bonn
- Lamp change once a year; lamps and quartz sleeves fitted and removed without tools
- Power supply designed to run on electrical networks worldwide
- [Solenoid shut-off valve] on Proxima and Maxima stops the water supply on a fault

Design and operation

Disinfection chamber

The UV lamp sits in the centre of a polished stainless-steel chamber so that all water passing through receives the required dose. The lamp emits mainly at 254 nm, one of the most effective wavelengths for inactivating bacteria, viruses and cysts, including Legionella.

Controls and monitoring

All models have a glow-cap lamp operation indicator and the Safe-T-Cap lamp connector. Proxima and Maxima add a micro-computer controller with visual and audible alarms, a digital lamp-life display and a push-button reset. Maxima also measures UV intensity with a sensor and shows it on a digital display.

Installation

Aquada fits into existing pipework with little effort, after any pre-treatment the water needs (for example softening or carbon filtration). Size the unit to the maximum flow into the building. Installation by a licensed plumber is required.

Maintenance

Lamps are changed after one year of operation. Lamps and quartz sleeves are fitted and removed without tools, and the stainless-steel chamber is easy to clean.



Typical applications

- Homes on bore, tank or rainwater supply
- Schools, restaurants, hotels, hospitals and other commercial buildings
- Campgrounds, cottages, yachts and recreational vehicles
- Process water circuits, private pools, fountains and air-conditioning systems

Supplied and supported by Ozone UV Solutions

System selection and UV dose sizing · Installation and commissioning · PLC/SCADA integration · Planned servicing and lamp changes · Genuine WEDECO lamps, spare parts and consumables · 24/7 technical support line
+61 422 081 913

Model selection

Choose the size from the maximum flow into the building, then the equipment level (Altima, Proxima or Maxima) from the features you need. Send us the flow and water source and we will confirm the model.

Aquada sizes

Model	Max. flow at 400 J/m ² (m ³ /h)*	Max. flow at 300 J/m ² (m ³ /h)*	Pipe connection	Power	Chamber H × W × D (mm)	Chamber weight
Aquada 1	0.73	0.98	1/2"	35 W	470 × 90 × 70	1.7 kg
Aquada 2	1.85	2.47	3/4"	55 W	670 × 95 × 70	2.4 kg
Aquada 4	3.24	4.32	3/4"	55 W	675 × 129 × 102	3.2 kg
Aquada 7	6.70	9.00	1"	85 W	1,035 × 132 × 102	5.0 kg
Aquada 10	10.10	13.4	1 1/2"	85 W	1,040 × 180 × 140	9.0 kg

Equipment levels

Feature	Altima	Proxima	Maxima
Polished stainless-steel disinfection chamber	•	•	•
High-intensity, long-life UV lamp	•	•	•
Glow-cap lamp operation indicator	•	•	•
Safe-T-Cap lamp connector system	•	•	•
Micro-computer controller	—	•	•
Visual alarm display and audible alarm	—	•	•
Digital lamp-life display	—	•	•
Push-button alarm / controller reset	—	•	•
Power connection for [solenoid shut-off valve]	—	•	•
UV intensity monitor with digital display	—	—	•

Options are shown in [square brackets]. * At 98% UV transmittance (1 cm) at end of lamp life. Each size is available as Altima, Proxima or Maxima. Observe local regulations for UV disinfection of drinking water.

Common specifications

UV LAMP & MONITORING	
Lamp type	Low-pressure mercury UV lamp, main output at 254 nm
Lamp change	After one year of operation; tool-free
Lamp indicator	Glow-cap lamp operation indicator (all models)
UV monitoring	UV intensity sensor with digital display (Maxima)
Testing	Biodosimetrically tested, Hygiene Institute, University of Bonn
DISINFECTION CHAMBER	
Material	Polished stainless steel
Connections	1/2" to 1 1/2" (see size table)
Sizes	Aquada 1, 2, 4, 7 and 10
CONTROL UNIT	
Controller	Altima: lamp indicator · Proxima and Maxima: micro-computer with visual and audible alarms, digital lamp-life display, push-button reset
Options	[Solenoid shut-off valve] (Proxima, Maxima)
Power	35–85 W depending on size · power supply suitable for electrical networks worldwide
Installation	In-line, after any pre-treatment · by a licensed plumber

Request sizing or a quote

Send us the maximum flow rate, the water source (bore, tank, rainwater or mains) and any pre-treatment already installed. We will recommend the Aquada size and model and quote supply, installation and replacement lamps.

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Specifications subject to change without notice.