

Validated
series



Your organisation must be able to rely on a clean and safe water supply. Continuously, and in any location. Whether it's for drinking water, process water or water used for other applications. To make this possible, we developed the Validated series. It has been demonstrated that these validated systems offer the best disinfection performance for your water treatment system, with capacity ranging from 0.5 m³/h to 465 m³/h. That is why these systems are used to treat and condition drinking and process water for industry, shipping and non-residential construction. Guaranteed safety and minimal energy consumption.



Proven to be effective



A lot of the UV systems on the market are calculated based on theoretical data. Our Validated series has been extensively tested in practice, according to the European standard (EN 14879), and therefore guarantees optimal disinfection for your water. In addition, the systems have (international) WRAS, KIWA ATA and NIPH certifications. From the very first moment, you know where you stand with the V-series: clean and safe water for every application.

Lowest Total Cost of Ownership



Our V-series systems are made of high-quality materials with a long lifespan, which are easy to repair and reuse. The systems also use energy-efficient low-pressure lamps and a special Flow Management System ensures that every drop of water is treated as efficiently as possible. This way we don't waste energy or materials, and we minimise maintenance. As a result, our systems have the lowest Total Cost of Ownership (TCO) in the market and a payback period of several years.

Remote Performance Analysis



Optionally, you can analyse the performance remotely, to ensure that your system is functioning properly. We monitor the system using smart optional sensors. So you always know when maintenance is required. This saves costs and contributes to the lifespan of your system.

V100

Specifications



V100

UV chamber

| | |
|---------------------------------|-------------------------------|
| Material | 316L / 1.4404 Stainless Steel |
| In-/Outlet Connections | 1" BSP-T |
| Pressure Drop | < 0.1 bar |
| Max. Pressure | 16 bar with 25°C |
| Mounting orientation | Horizontal / Vertical |
| Diameter - A (mm) | 60 |
| Height - B (mm) | 63 |
| Installation demensions- C (mm) | 554 |
| Length - D (mm) | 690 |
| Required working space - E (mm) | 1244 |
| Weight (kg) | 3.7 |

UV-C lamp

| | |
|----------------------------------|-------------|
| Lamp type | 25W Regular |
| Preferred water temperature (°C) | 5 °C - 30°C |
| Total UV-C output (Watt) | 7 |
| Lamp lifespan (hours) | 8000 |
| Number of lamp | 1 |

Control Unit

| | |
|------------------------------------|--|
| Material | Aluminium and recycled ABS |
| Dimensions (lxbxh) | 280x150x90 mm |
| Weight (kg) | 1.6 |
| Control features | Lamp status, lamp hours, system running time, volt free alarm contacts, 4/20mA output, Remote Start/Stop |
| Options | UV sensor, Temperature safety sensor, Temperature Safety Dumpvalue, Modbus RTU, Remote Monitoring |
| Operating Voltage | 230 VAC, 50/60 Hz |
| Electrical connection | 6A C-char./4A D-char. |
| Protection rating | IP55 |
| Preferred ambient temperature (°C) | 5°C - 35°C |
| Total Power Consumption (Watt) | 30 |
| Length lamp cable | 1 meter (3 or 6 optional) |

Power Consumption

| | |
|--|------|
| In Wh/m ³ *doses 300 J/m ² | 30 |
| In Wh/m ³ *doses 400 J/m ² | 37.5 |

Approvals

| | |
|------------------------|--|
| Complies with | Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility Directive (EMC) 2014/30/EU, Machinery Directive 2014/42/EC |
| Validated according to | NEN-EN 14897:2006, WRAS Approved, Kiwa ATA |

| Transmittance (T10) | Capacity (m ³ /h) | |
|---------------------|------------------------------|----------------------|
| | 300 J/m ² | 400 J/m ² |
| 80% | 0.6 | 0.6 |
| 85% | 0.7 | 0.6 |
| 90% | 0.8 | 0.7 |
| 95% | 1 | 0.8 |
| 99% | 1.3 | 0.9 |

Capacity - Transmittance graph

