

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.

V160

Specifications



V160

UV chamber

Material	316L / 14404 Stainless Steel
In-/Outlet Connections	2" BSP-T
Pressure Drop	< 0.1 bar
Max. Pressure	16 bar with 25°C
Mounting orientation	Horizontal / Vertical
Diameter - A (mm)	129
Height - B (mm)	103
Installation demensions- C (mm)	1041
Length - D (mm)	1207
Required working space - E (mm)	2270
Weight (kg)	10,8

UV-C lamp

Lamp type	120W Long Life
Preferred water temperature (°C)	5 °C - 30 °C
Total UV-C output (Watt)	38
Lamp lifespan (hours)	16000
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)	140
Length lamp cable	1 meter (3 or 6 optional)

Power Consumption

In Wh/m ³ *doses 300 J/m ²	6,4
In Wh/m ³ *doses 400 J/m ²	8,5

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%	10,4	7,8
85%	13,5	10,1
90%	17,3	13
95%	22	16,5
99%	26,4	19,8

Capacity - Transmittance graph

