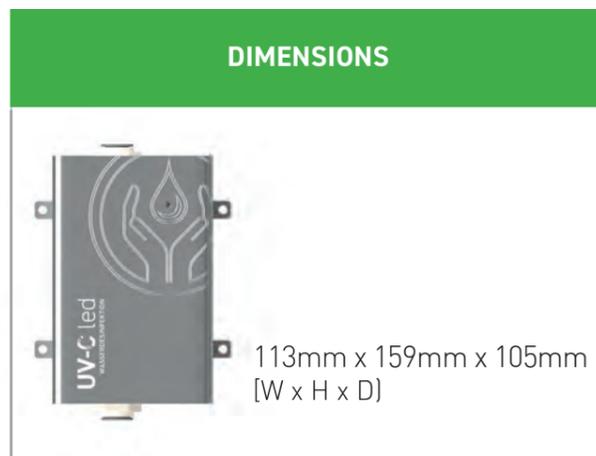


THE FUTURE OF WATER DISINFECTION

MAINTENANCE-FREE | ENVIRONMENTALLY FRIENDLY | DISINFECTION WITHOUT CHEMICALS

TECHNICAL DATA			
Max. flow rate ¹	up to 8.0l/min		
Disinfection capacity ²	up to 99.999%		
Water connections	Hose nozzle 10mm and 12mm		
Weight	0.9kg		
Max. operating pressure ³	8.3bar/120psi		
Service life ⁴	5.000h (in operating mode-water withdrawal)		
Max. ambient temperature	55°C		
Recommended water temperature	0-38°C		
Input voltage	11-18VDC		
Max. energy consumption	0.02A (Standby) 1.2A (Operating mode)		
Max. power	14W		
Signal input UV disinfection device	Voltage	Current	Frequency
Pump	11-18VDC	-	-
Flow sensor (frequency input)	5-24VDC	min. 1mA	1-200 Hz



NOTES

¹ depending on the pump capacity

² E. Coli reduction at a flow rate of 2.25l/min (99.99% at 5l/min, 99.9% at 8l/min)

³ test results at 2.4-fold pressure (19.92bar) and a water temperature of 19.4°C

⁴ at a Ø - water temperature of ≤30 °C

Art. No.: BLUVC0812



UV-Cled

WATER DISINFECTION

ENVIRONMENTALLY FRIENDLY

Thanks to the innovative UV-C LED technology, UV disinfection devices from WM aquatec have an extraordinarily high disinfection performance with a compact design. In contrast to the previous UV technology, there are no environmentally dangerous medium-pressure mercury-vapor lamps here, but the latest UV-C LED technology, which brings enormous advantages with it.

MAINTENANCE FREE

As LEDs do not have a start or warm-up phase, they are switched exclusively at the same time as the water is drawn off, resulting not only in very low power consumption but also in a long service life of several years - without lamp replacement. The UV disinfection devices will be cleaned automatically during the annual maintenance of the clear water system. Therefore our UV disinfection devices are maintenance-free.

With a flow rate of up to 8 l/min they are excellent for drinking water in e.g. motorhomes, expedition vehicles, food trucks or yachts. In addition, the LED light sources, the ballast and the control unit are housed in a high-quality stainless steel housing, which represents a plug & play solution with intelligent connections on the electrical and water sides. Safe operation is guaranteed by an integrated function, temperature and service life monitoring.

WITHOUT CHEMICALS

Our UV disinfection devices can be applied in the fresh water system without great expertise. With disinfection rates of up to 99.999%, they ensure an effective drinking water disinfection worldwide - without the use of chemical disinfectants.

TECHNICAL DATA (EXCERPT):

Weight: 0,9kg
 Dimensions (WxHxD): 113x159x105mm
 Input voltage: 11-18VDC
 Power: 0,02A (Standby)/1,2A (Operating mode)
 Power consumption: max. 14W
 Service life (water withdrawal): 5000h
 Operating pressure: max. 8,3bar/120psi
 Max. recommended flow rate: 8l/min

MAINTENANCE FREE | ENVIRONMENTALLY FRIENDLY | DISINFECTION WITHOUT CHEMICALS



MADE IN GERMANY

UV-C LED WATER DISINFECTION

- water disinfection - 100% without chemicals
- latest, innovative UV-C LED technology
- disinfection performance up to 99.999%¹
- up to 8 l /min. flow rate - parallel connection possible for higher flow rates
- suitable for submersible and pressure pumps²
- environmentally friendly: free of mercury and harmful disinfection by-products
- low energy consumption thanks to real-time operation
- direct disinfection during water extraction (real-time operation)
- easy to integrate into existing fresh water systems
- usable over 13 years³ with unlimited switching cycles
- no lamp replacement required
- maintenance-free (with an annual cleaning of the clear water system)
- safe operation due to integrated monitoring of current and function, temperature, service life, with signalling (optical and acoustic)
- incl. connection material (electrical & water side)

¹ reduction of E.Coli at a flow rate of 2.25 l/min (99.999% @ 5 l/min, 99.9% @ 8 l/min)

² in exceptional cases (sensor-controlled pumps) the use of an ext. flow sensor may be necessary

³ with an average water withdrawal of 365 hours per year

MORE INFORMATION AND TECHNICAL DATA
WWW.WM-AQUATEC.COM



FUNCTIONALITY

Water disinfection by means of UV-C radiation is a water treatment technology that has been successfully used for decades and is used in the public drinking water supply, in medical areas and in industry. The water to be disinfected is irradiated with short-wave UV light in the range of 240-290 nanometers.



The genetic information contained in the DNA of the microorganisms adsorbs the energy of the UV-C radiation and is thereby destroyed. Microorganisms, such as viruses and bacteria, can be effectively inactivated by UV-C radiation and prevented from multiplying.

This purely physical process determines an efficient water disinfection (up to 99.999%), no chemical disinfectants being used.

This purely physical process determines an efficient water disinfection (up to 99.999%), no chemical disinfectants being used.

ACCESSORIES



STAINLESS STEEL FLOOR MOUNTING BRACKET

Stainless steel floor mounting for free-standing mounting of the UV disinfection device, incl. fixing material.



WATER CONNECTION ADAPTER 12MM

Water connection adapter 12mm for 12mm plug-in hoses (outside tolerance) such as UniQuick® or John Guest®.



WATER CONNECTION ADAPTER 15MM

Water connection adapter 15mm for 15mm plug-in hoses such as Whale System® or John Guest®.

INSTALLATION EXAMPLE

hygienic operation of a fresh water system



UV-C LED water disinfection
 (incl. stainless steel floor mounting bracket & active carbon filter)