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12v, 24v DC and 240vac UVC-LED upto 3lpm Ultra Violet (UV) Water Treatment Systems



Price: £72.00

Brand: [Direct Water Filters](#)
Product Code: UVC-LED-3
Availability: In Stock

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UVC-LED 2-3LPM SYSTEM
12-24VDC OR 240VAC WITH POWER ADAPTOR

Suitable for our homes, caravans, campervan, RV's, rainwater systems, yachts, boats and any other off grid use

led uv light for water purification can be the most eco-friendly way to treat water. It could be installed on Water Filtration, Reverse Osmosis, Ice Makers etc, with no mercury lamp, saving money on replacement lamps, and quartz sleeves.

Components in the LED UV
UV-LED light for water purification includes a flow control switch.

Features of the LED UV

The LED lamps are with 3,000 hours of continuous working life, during which it could purify 120,000 liters water. In contrast of the conventional mercury UV lamp, UV LED has its advantages in light source, product volume, on/off speed as well as maintenance cost.

The UVC region of the UV spectral range refers to wavelengths between 100 nm to 280 nm. In the case of disinfection, the optimum wavelength is in the region of 260 nm to 270 nm, UV led for water disinfection is extremely effective against microorganisms but only if the UV light can penetrate, This means that the quality of your water is very important so we recommend at least 5 micron sediment filter prior to UV system.

UVC-LED for water disinfection includes a robust design and small footprint, which make this technology appropriate for POU applications where traditional water treatment technologies may not be optimally used.

UV LEDs can be on when water is treated and off when it is not being treated. As a result, for POU applications where water is being used and treated intermittently, UV LEDs will likely not require replacement for the entire life of the device (resulting in lamp replacement cost savings) and consume only a fraction of the energy (resulting in considerable energy cost savings).

UVC-LED-3 will purify 2-3lpm, if you need higher flow rates then they can add two in parallel for flow up to 30lpm

Water Quality Requirements

UV transmittance<93%
Hardness<120 (mg/L)

Manganese<0.05 (mg/L)
Iron<0.3 (mg/L)
Temperature0-45,0(32-132 °F)
Turbidity<1 (NTU)
Tannins<0.1 (mg/L)

SPECIFICATIONS

ModelUVC-LED-3
Size: length 135mm x Dia 22mm
Flow rate@(16mj/cm² at 95% UVT)UP TO 1GPM(4LPM)
UVT(%)Recommend above 90%
Max Pressure8bar(116PSI)
Max ambient temperature50?(122?)
Operating water temperature0-45? (32-132?)
water connections1/4?OD tube
Input Voltage12VDC
Input Power8W
LED life 3000hrs

PERFORMANCE

There's no mercury lamp in uv led water purification, which is environment-friendly.
The working life is long, 3-5 years for 3-4 people family.
It can operate without preheating and won't increase the water temperature.
It can be turned on/off more than 100,000 times.

Please note that UV sterilisers do not improve the taste of the feed water. They should be incorporated into a system comprising the appropriate water filters to remove particles and to treat the water to make it palatable. Our trained staff can advise on the appropriate system to meet any combination of feed water flow and quality.

IMPORTANT

This is a **12v DC version** and must be connected to a 12 v power supply or battery,
DO NOT CONNECT DIRECTLY TO 240V AC MAINS WITHOUT A 240VAC TO 12VDC TRANSFORMER

we strongly advise you to install pretreatment to a minimum rating of 5 microns.