UV-C LED Water Disinfection Module

MP-UVC-10LB



Key Features

- **Safe: Mercury-Free UVC LED Technology**-Environmentally friendly, non-toxic, and compliant with global regulations.
- **Effective:** Achieves up to **99.999% Pathogen Reduction** (5.0 log) against bacteria, viruses, and microbes.
- **Efficient:** Up to **90% energy savings** with low power operation, reducing costs.

Product Overview

- Designed for disinfection, the MP-UVC-10LB uses **mercury-free UVC LEDs** (270-280 nm) to deliver **up to 99.999% pathogen reduction**, ensuring safe, clean water. Every module undergoes **100% efficacy and water tight testing**, ensuring quality and durability.

Effective Disinfection | Low Maintenance | 100% Efficacy Test | Intelligent | Easy to Install | Eco-Friendly & Energy-Efficient



Commercial Water Purification System



Hotel Guest Room Water Supply System



Restaurant & Catering Kitchen Water Systems



Animal Husbandry & Aquaculture



Food & Beverage Processing Water

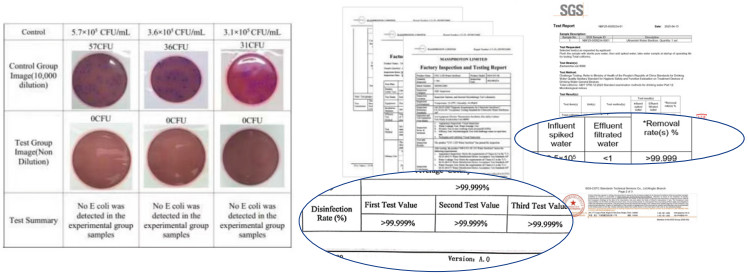


Medical Ultrapure Water Machine

100% Disinfection Efficacy Test

Industry Exclusive! 100% single-tube testing for all UV disinfection modules. Each comes with a unique serial-numbered test report.





PRODUCT PARAMETERS

PARAMETER	LEVEL
Model	MP-UVC-10LB
MASSPHOTON Standard Configuration (30 mJ/cm² at 95% UVT)	10 lpm 2.64 gpm 0.6 m³/hr
Alternate Configuration (16 mJ/cm² at 95% UVT)	18.75 lpm 4.87 gpm 1.12 m³/hr
Alternate Configuration (40 mJ/cm² at 95% UVT)	7.5 lpm 1.95 gpm 0.45 m³/hr
Electrical	DC 24V/1.5A
Power	10 W
Power Supply Method	Terminal
UV-C LED Wavelength	270 nm- 280 nm
UVC-LED Lifetime	L70>15,000 h
Sterilization Efficiency	Up to 99.999% or 5.0 Log Reduction (*)
Water Pipe Interface Pecification	G 1/2"
Inlet/Outlet Material	304 Stainless Steel (316 Available Upon Request)
Maximum Inlet Pressure	0.4 MPa (60 psi)
Operating Temperature Range	4℃ to 60℃ (39.2℉ to 140℉)
Product Dimensions	Φ35mm×185mm (Φ1.38in × 7.3in)
Exterior Material	Anodized Aluminum

(*) The actual disinfection efficiency subjects to the water quality.
The above test results are based on the following test conditions with test strain of Escherichia coli (8099), with 5×10^4 to 5×10^5 CFU/mL dechlorinated sterile test water.

pH	UV transmittance	Turbidity	Temperature	TDS
7.5+0.5	98+2%	< 1.0 NTU	20+2.5°C(68±5 °F)	200 to 500 mg / L

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