UV-C LED Water Disinfection Module

——MP-UVC-16LB



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-16LB 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

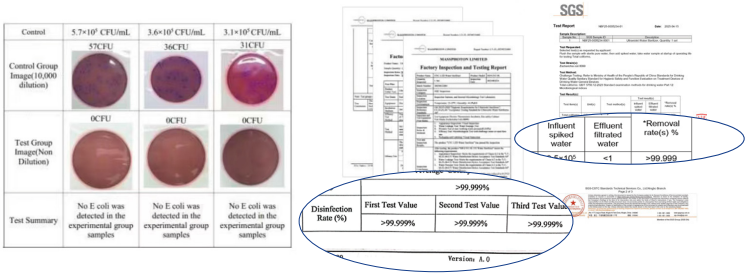


Medical Ultrapure Water Machine

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-16LB
Rated Flow Rate	≤ 16 L/min (4 GPM)
Power Adapter Input	DC 24V/1.5A
Power Supply Method	Terminal
UV-C LED Wavelength	270 nm- 280 nm
UVC-LED Lifetime	≥ 15,000 Hours
Sterilization Efficiency	Up to 99.999% or 5.0 Log Reduction (*)
Flow Switch	None
Water Pipe Interface Pecification	1/2 Inch Thread
Inlet/Outlet Material	Stainless Steel
Maximum Inlet Pressure	0.4 MPa
Operating Temperature Range	4℃ to 60℃
Product Dimensions	Φ35 mm × 229 mm （Φ1.4 in * 9 in）
Exterior Material	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

MASSPHOTON LIMITED
Semiconductor Ultraviolet Technology and Applications Expert
www.massphoton.com
info@massphoton.com
Unit 542, 5/F, Building 5W, Hong Kong Science Park