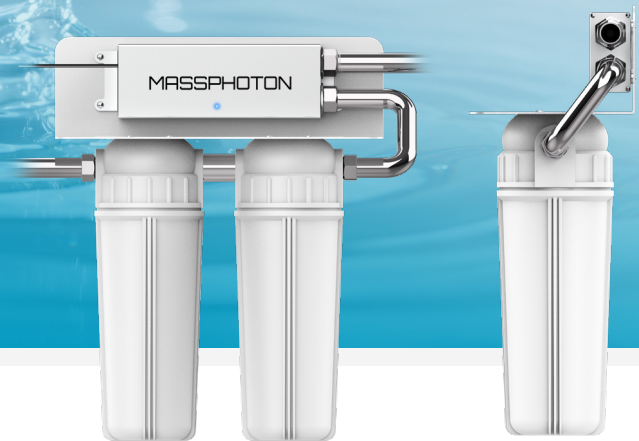


UV-C LED Water Purifier

—MP-UVC-16LB



Key Features

- **Safe:** Mercury-Free UV-C LED Technology
Eco-Friendly, non-toxic, and compliant with global regulations.
- **Effective:** Achieves up to **99.999% Pathogen Reduction** (5.0 log) against bacteria, viruses, and microbes.

Product Overview

- Designed for disinfection, the MP-UVC-16LB uses **mercury-free UV-C 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.



Household Direct
Drinking Water

Food and
Beverage Water

Commercial Office
Drinking Water

Industrial
Scenarios

Product Specifications - Filtration

Parameters	Specifications
Rated Flow Rate	10-16 L/Minute (2.5-4 GPM)
Applicable Water Temperature	5-40 °C
Applicable Water Pressure	0.5-0.6 MPa (70-90 psi)
Filter Lifetime	6-12 Months
Filter Type	PP + Activated Carbon

100% Disinfection Efficacy Test



Control	5.7×10 ⁶ CFU/mL	3.6×10 ⁶ CFU/mL	3.1×10 ⁶ CFU/mL
Control Group Image (10,000 dilution)			
Test Group Image (Non Dilution)			
Test Summary	No E. coli was detected in the experimental group samples	No E. coli was detected in the experimental group samples	No E. coli was detected in the experimental group samples

Disinfection Rate (%)	First Test Value	Second Test Value	Third Test Value
	>99.999%	>99.999%	>99.999%

Version: A.0

Product Specifications

Parameters	Specifications
Model	MP-UVC-16LB
Maximum Flow Rate	16 L/Minute (4 GPM)
Rated Voltage	100-240 V 50/60 Hz
Input Current	0.8 A Max
Total Power	10 W
Water Pipe Connector	1/2 Inch or 3/8 Inch
Product Dimensions	329 mm * 404 mm * 156 mm (12.9 in * 15.9 in * 6.1 in)
UV-C LED Wavelength	270-280 nm
Operating Temperature	4-60 °C
Rated Inlet Water Pressure	0.5-0.6 MPa (70-90 psi)
Absolute Maximum Inlet Water Pressure	0.8 MPa (110 psi)
Disinfection Efficacy	Up to 99.999% or 5.0 Log Reduction (*)

(Note) The actual germicidal effect is affected by water quality.

The above test results are based on the following test conditions: The test strain is Escherichia coli (8099), and chlorine-free sterile test water containing 5×10⁶ to 5×10⁵ CFU/mL is used.

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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Product Features



Effective
Disinfection



Low
Maintenance



100%
Efficacy Test



Intelligent



Easy to Install



Eco-Friendly &
Energy-Efficient

Dual-Stage Pre-Filtration + UV Disinfection: Double Protection

Dual-Stage Pre-Filtration:

① First Stage:

PP Cotton Filter (5 μm Pre-Filtration)

Filters out large-particle impurities such as sediment, rust, and colloids, and reduces the turbidity of raw water.

② Secondary Stage:

Activated Carbon Filter (0.01 μm)

Adsorbs residual chlorine, colors, odors, and organic substances (e.g., chloroform), improving water quality.

③ UV-C LED Disinfection:

Ultimate Protection for Biological Safety Powered by advanced UV-C LED technology at a 275 nm wavelength, our disinfection module delivers high-intensity ultraviolet light that penetrates microbial cell membranes. It directly disrupts the DNA/RNA structures of bacteria, viruses, preventing replication and ensuring superior water safety.

