UVC LED Water Disinfection - SPECIFICATIONS

Specifications provided as a guide. Specifications subject to change.

Parameter	MP-UVC-200LP	MP-UVC-70LP	MP-UVC-48LC	MP-UVC-24LC	MP-UVC-10LC	MP-UVC-4LC	MP-UVC-45LB	MP-UVC-24LB	MP-UVC-16LB	MP-UVC-10LB	MP-UVC-4LB	MP-UVC-2LB
												
MASSPHOTON Standard Configuration (30 mJ/cm2 at 95% UVT)	200 lpm	93 lpm	48 lpm	24 lpm	10 lpm	4 lpm	45 lpm	24 lpm	16 lpm	10 lpm	4 lpm	2 lpm
	52.8 gpm	24.7 gpm	12.7 gpm	6.3 gpm	2.6 gpm	1.1 gpm	11.9 gpm	6.3 gpm	4.2 gpm	2.6 gpm	1.1 gpm	0.5 gpm
	12.0 m³/hr	5.6 m³/hr	2.9 m³/hr	1.4 m³/hr	0.6 m³/hr	0.2 m³/hr	2.7 m³/hr	1.4 m³/hr	1 m³/hr	0.6 m³/hr	0.2 m³/hr	0.1 m³/hr
Alternate Configuration (16 mJ/cm2 at 95% UVT)	375 lpm	175 lpm	90 lpm	45 lpm	18.75 lpm	7.5 lpm	84.37 lpm	45 lpm	30 lpm	18.75 lpm	7.5 lpm	3.75 lpm
	99 gpm	46.3 gpm	23.8 gpm	11.8 gpm	4.9 gpm	2.1 gpm	22.3 gpm	11.8 gpm	7.9 gpm	4.9 gpm	2.1 gpm	0.9 gpm
	22.5 m³/hr	10.5 m³/hr	5.4 m³/hr	2.6 m³/hr	1.1 m³/hr	0.4 m³/hr	5.1 m³/hr	2.6 m³/hr	1.9 m³/hr	1.1 m³/hr	0.4 m³/hr	0.2 m³/hr
Alternate Configuration (40 mJ/cm2 at 95% UVT)	150 lpm	70 lpm	36 lpm	18 lpm	7.5 lpm	3 lpm	33.75 lpm	18 lpm	12 lpm	7.5 lpm	3 lpm	1.5 lpm
	39.6 gpm	18.5 gpm	9.52 gpm	4.72 gpm	1.95 gpm	0.82 gpm	8.92 gpm	4.72 gpm	3.15 gpm	1.95 gpm	0.82 gpm	0.37 gpm
	9 m³/hr	4.2 m³/hr	2.17 m³/hr	1.05 m³/hr	0.45 m³/hr	0.15 m³/hr	2.02 m³/hr	1.05 m³/hr	0.75 m³/hr	0.45 m³/hr	0.15 m³/hr	0.07 m³/hr
Electrical	100~240 V 50/60 Hz	100~240 V 50/60 Hz	100~240 V 50/60 Hz	100~240 V 50/60 Hz	100~240 V 50/60 Hz	100~240 V 50/60 Hz	100~240 V 50/60 Hz	DC 24 V	DC 24 V	DC 24 V	DC 24 V	DC 24 V
Power	87W	29 W	15W	29W	10 W	8W	15W	29 W	19 W	10 W	9 W	3 W
Power Supply Method	Adapter	Adapter	Adapter	Adapter	Adapter	Adapter	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal
UV-C LED Wavelength	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm	270 nm~280 nm
Product Lifetime	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h	L70>15,000 h
Disinfection Efficiency	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)	Up to 99.999% / 5.0 Log Reduction (*)
Flow Switch	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	None	None	None	None	None	None
Connection Size	1" MNPT	1" MNPT	1" MNPT	G 1/2"	G 1/2"	1/4" Quick Connect	1" MNPT	G 1/2"	G 1/2"	G 1/2"	3/8" Quick Connect	OD 8.5mm Barb connector
Inlet/Outlet Material	304 Stainless Steel (316 Available Upon Request)	304 Stainless Steel (316 Available Upon Request)	304 Stainless Steel (316 Available Upon Request)	304 Stainless Steel (316 Available Upon Request)	304 Stainless Steel (316 Available Upon Request)	Food-Grade Plastic	304 Stainless Steel (316 Available Upon Request)	304 Stainless Steel (316 Available Upon Request)	304 Stainless Steel (316 Available Upon Request)	304 Stainless Steel (316 Available Upon Request)	Food-Grade Plastic	Food-Grade Plastic
Operating Pressure	0.1 to 0.8 MPa (14 to 116 psi)	0.1 to 0.8 MPa (14 to 116 psi)	0.1 to 0.8 MPa (14 to 116 psi)	0.4 MPa (60 psi)	0.4 MPa (60 psi)	0.4 MPa (60 psi)	0.1 to 0.8 MPa (14 to 116 psi)	0.4 MPa (60 psi)	0.4 MPa (60 psi)	0.4 MPa (60 psi)	0.4 MPa (60 psi)	0.2 MPa (30 psi)
Operating Water Temperature	5°C to 40°C (41°F to 104° F)	5°C to 40°C (41°F to 104° F)	5°C to 40°C (41°F to 104° F)	4°C to 60°C (39.2°F to 140 °F)	4°C to 60°C (39.2°F to 140 °F)	5°C to 40°C (41°F to 104° F)	5°C to 40°C (41°F to 104° F)	4°C to 60°C (39.2°F to 140 °F)	4°C to 60°C (39.2°F to 140 °F)	4°C to 60°C (39.2°F to 140 °F)	4°C to 60°C (39.2°F to 140 °F)	4°C to 60°C (39.2°F to 140 °F)
Dimensions	Φ84mm×458mm (Φ3.3in×18in)	Φ84mm×458mm (Φ3.3in×18in)	Φ70mm×338.5mm (Φ2.8in×13.3in)	Φ35mm×229mm (Φ1.4in×9in)	42mm×42mm×225mm (1.7in×1.7in×8.9in)	Φ42mm×252mm (Φ1.7in×10in)	Φ70mm×253mm (Φ2.76in×9.96in)	Φ35mm×279mm (Φ1.4in×11in)	Φ35mm×229mm (Φ1.4in×9in)	Φ35mm×185mm (Φ1.38in×7.3in)	Φ25.4mm×130mm (Φ1in×5.1in)	18mm×43mm×121mm (0.7in×1.7in×4.8in)
Exterior Material	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Food-Grade Plastic

(*) The actual sterilization 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 5×10⁴ to 5×10⁵ 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