

ULTRAVIOLET STERILIZERS

LIGHTMATCH 300 Series

Safe and Clean Water
System by the LIGHTMATCH 300
series Disinfection Systems

INTRODUCTION

The LIGHTMATCH 300 systems virtually eliminate microbiological contaminants without using potentially hazardous chemicals. Bacteria, viruses and other microbiological organisms are destroyed safely inside a factory tested stainless steel cell. The LIGHTMATCH 300 series adds nothing to your water except cleaning ultraviolet light Nature's Way...



HOW THEY WORK

Water enters through the bottom port of the ultraviolet generator cell and swirls around a low pressure mercury vapor lamp, which emits powerful ultraviolet light energy at 235.7 nm wave length. Vital genetic components contained in micro-organisms absorb the light energy; this disrupts the DNA and prevents reproduction. Treated water then exits through the top port of the generator cell and is ready for consumption.

APPLICATIONS

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|------------|---------------|----------------|
| + Farms | + Hospitals | + Schools |
| + Homes | + Restaurants | + Beauty Shops |
| + Cottages | + Hotels | + Greenhouses |

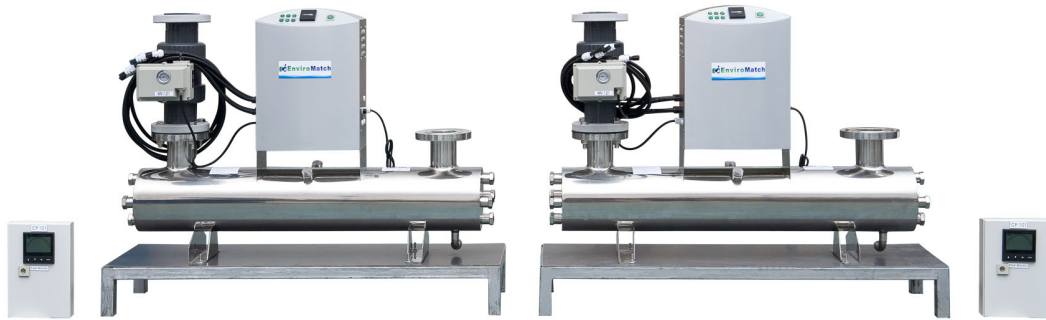
STANDARD FEATURES

ALL MODELS

- + High-output low pressure mercury vapor lamps with high isolation pin design.
- + Easy servicing no need to disconnect water flow to change UV lamp.
- + Open-end quartz sleeves & aluminum gland nuts for optimum operating temperature & sealing efficiency.
- + Remote plug-in and desktop ballast with LED lamp-out indicators.
- + 99.9% destruction of bacteria and viruses at rated flow.
- + Nature's way to protect your water without the addition of harmful chemicals.
- + Includes mounting clamp.
- + Maximum operating pressure: 125 psi.
- + Ambient temperature: 2-40° C.
- + Quartz sleeve is included in all models.

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DELUXE MODELS FEATURES

- **UV Monitor** a true 254 nm ultraviolet sensor incorporating individual calibration boards (allows for field replacement of sensor only, if necessary) audible and visual indicators included as integral components.
- **Solenoid Output** works in conjunction with the ultraviolet alarm allowing for the stoppage of water flow in the event that the sensor senses that the water is not adequately being treated or in case of a power failure to be used in conjunction with optional normally closed solenoid valves (order separately).
- **Infrared Output** allows for remote monitoring as well as a diagnostic tool for service technicians. (micro-controller incorporated into the circuitry to keep track of actual UV output, elapsed running time, and other diagnostic measurements). For remote audible and visual monitoring of the UV sensor, use the optional IR-ALARM (order separately).

Specifications	LM3-24	LM3-35	LM3-45	LM3-52	LM3-66	LM3-88	LM3-110	LM3-132	LM3-154	LM3-198	LM3-220	LM3-264	LM3-352	LM3-440	LM3-550	LM3-660	
Flow rate (gpm)	24	35	45	52	66	88	110	132	154	198	220	264	352	440	550	660	
Inlet / Outlet Size	1.5"MNPT	2"MNPT	2"MNPT	2"MNPT	2"MNPT	2"150LB FLANGE	2.5"150LB FLANGE	3"150LB FLANGE	3"150LB FLANGE	4"150LB FLANGE	4"150LB FLANGE	4"150LB FLANGE	4"150LB FLANGE	4"150LB FLANGE	6"150LB FLANGE	6"150LB FLANGE	
Electrical	Volts	100~240V / 50-60Hz															
	Watts	89W	137W	179W	205W	268W	221W	331W	378W	441W	504W	551W	630W	975W	1300W	1625W	1950W
	Lamp Watts	85W	2x65W	2x85W	3x65W	3x85W	2x105W	3x105W	3x120W	4x105W	4x120W	5x105W	5x120W	6x155W	8x155W	10x155W	12x155W
Chamber Material	304SS or 316LSS																
Lamp Failure System	Visual	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Audible	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Control Base	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
254 nm UV Monitor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Hour Meter	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
Temperature Alarm	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Lamp Design Hours	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	
Dimensions L x W x H (mm)	962x190x169	962x190x169	962x190x169	962x270x235	962x270x235	1257x270x314	1257x270x314	1257x394x381	1257x394x381	1257x394x403	1257x394x403	1257x394x403	1864x330x620	1864x330x620	1864x330x622	1864x330x652	

* Specifications are subject to change without notice

Metric Units	Flowrate (m ³ /hr) = GPM / 4.4	Pressure (bar) = PSI / 14.5	Weight (Kg) = lbs / 2.2	Dimensions (mm) = inch x 25.4
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The flow rate are based on 30mj/cm² dosage. For more information, Please contact us!

Deluxe models should be specified the option equipments.



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