

# MES-510 UV

## Ultraviolet Disinfection Systems

### FEATURES:

#### Stainless Steel Ultraviolet Chamber

- Plasma welded and electro-polished surfaces that enhance system disinfection performance.
- Durable 304 stainless steel chamber.
- Built-in gallon per Minute (GPM) flow control to guarantee proper treatment flow rate.

#### Solid State Power Supply

- Electronic ballast instantly starts the germicidal lamp.
- 510A is equipped with an alarm to warn of lamp failure.

#### Germicidal Lamp and Quartz

- High efficiency germicidal lamp emitting 254 nanometers of UV energy for up to 9,000 hours (1 year). The 254 Nanometers is the optimum wave length of UV light for destroying bacteria.
- Easily accessible quartz tube can be removed from the stainless steel UV chamber in minutes for easy cleaning.



### ULTRAVIOLET ENERGY INTENSITY (MICRO WATT SECONDS / cm<sup>2</sup>) REQUIRED TO DESTROY COMMON ORGANISMS

Bacillus anthracis	8,700	<b>Escherichia coli (E. coli)</b>	<b>6,600</b>	Serratia marcescens	6,160
S. enteritidis	7,600	Micrococcus candidus	12,300	Dysentery bacilli	4,200
B. Megatherium sp. (veg.)	2,500	Micrococcus sphaeroides	15,400	Shigella paradysenteriae	3,400
B. Megatherium sp. (spores)	5,200	Neisseria catarrhalis	8,500	Spirillum rubrum	6,160
B. paratyphosus	6,100	Phytomonas tumefaciens	8,500	Staphylococcus albus	5,720
B. subtilis	11,000	Proteus vulgaris	6,600	Staphylococcus aureus	6,600
B. subtilis spores	22,000	Pseudomonas aeruginosa	10,500	Staphylococcus hemolyticus	5,500
Corynebacterium diphtheriae	6,500	Pseudomonas fluorescens	6,600	Staphylococcus lactis	8,800
Eberthella typosa	4,100	S. typhimurium	15,200	Staphylococcus viridans	3,800
		Sacina lutea	26,400		

### SPECIFICATIONS

Model	Flow Rate GPM	Lamp Wattage	Power Supply Amps/Volts	UV Intensity MW-SEC/CM <sup>2</sup>	Maximum Water PSI	Maximum Water Temperature	Inlet Pipe	Outlet Pipe	Depth	Width	Height
<b>MES-510A</b>	7.0 gpm	14 watts	0.5 / 115V	30,000	100 psi	100° F	3/4" NPT	3/4" NPT	6"	8"	16"