

MPR™ SERIES // HIGH PERFORMANCE UV SYSTEMS

Utilizing medium-pressure lamp technology, Aquafine's MPR™ systems meet and exceed the diverse needs of market-specific applications for disinfection and chloramines reduction.



MODEL SHOWN: MPR 4L 12 // **INDUSTRIES:** Food & Beverage, Recreational Water // **FLOWRATES:** 786 - 2,895 GPM @ 95% UVT // **APPLICATIONS:** Disinfection, Chloramines Reduction // **DESIGN CAPABILITIES:** Custom Configurations

MPR SERIES

These systems are ideal for flow rates greater than 25 gpm given the efficiencies gained in meeting dosage-intensive applications while being economically competitive.

The MPR series consists of 316L stainless steel, matte finish treatment chamber and a UL Type 12 painted carbon steel control cabinet, featuring a microprocessor-based controller and optional automatic wiper. The incorporation of MP lamp technology reduces the number of lamps by 90 percent, reducing footprint and downtime requirements, and decreasing installation and maintenance costs.

With a reduced footprint, higher flow rates and state-of-the-art MP technology, Aquafine's MPR systems are an innovative, reliable and environmentally responsible alternative. All systems in the series are CE compliant, as well as cULus and NSF 50 certified.

Aquafine MPR™ systems meet the rigid quality standards of the Recreational Waters market.

Lamp Technology

Medium-pressure (MP) lamp technology produces significantly higher levels of UV energy than low-pressure (LP) lamps, resulting in fewer lamps. MP lamps are polychromatic and produce a broad range of wavelengths, highly effective in inactivating microorganisms and reducing chemical compounds present in water.

Safe & Effective

Ultraviolet (UV) disinfection is a chemical-free process that adds nothing to the water except UV light. It provides rapid, effective inactivation of microorganisms through a physical process. When bacteria, viruses and protozoa are exposed to the germicidal wavelengths of UV light, they are rendered incapable of reproducing and infecting. No carcinogenic disinfection by-products are created, and no transportation, storage or handling of toxic or corrosive chemicals is necessary.

Guaranteed Performance and Support Services

All of our systems come with a lifetime disinfection guarantee. Customer support is available from our Authorized Distributor Network and from our 24/7 Technical Service Group.

For questions regarding your application needs, please contact your local Authorized Distributor or Aquafine for more information.

MPR™ SERIES // HIGH PERFORMANCE UV SYSTEMS

Model: MPR	1L 12	2L 12	4L 12
MAXIMUM FLOW RATE			
DISINFECTION @ 95% UVT GPM (M ³ /HR)*	786 (179)	1549 (352)	2895 (658)
NUMBER OF UV LAMPS (MP)	1	2	4
ELECTRICAL REQUIREMENTS			
ELECTRICAL SUPPLY	208-240VAC 50/60Hz, SINGLE PHASE, 2 W + GND		480/277VAC 60Hz, 3 PHASE, 4 W + GND**
OPERATING POWER (NOMINAL WATTS)	3500	6500	12500
CONTROLLER/DETECTOR			
V130 CONTROLLER		STANDARD	
LAMP STATUS INDICATOR		STANDARD	
UV TEMP. SWITCH 130°F (54°C)		STANDARD	
RUNNING TIME METER		STANDARD	
HAND/OFF/AUTO		STANDARD	
LIQUID LEVEL SWITCH		STANDARD	
UV SENSOR		STANDARD	
DOSE DISPLAY/LOGGING		OPTIONAL	
CONTROL CABINET			
CONTROL CABINET RATING		UL TYPE 12	
MATERIALS OF CONSTRUCTION		PAINTED CARBON STEEL (STAINLESS STEEL OPTIONAL)	
ENCLOSURE HIGH TEMP WARNING		STANDARD	
TREATMENT CHAMBER			
MATERIALS OF CONSTRUCTION		316L STAINLESS STEEL	
EXTERNAL SURFACE FINISH		MATTE FINISH (BEAD BLAST)	
INTERNAL SURFACE FINISH		PASSIVATED	
OPERATING TEMPERATURE °F (°C)		Water: 50° - 104° (10° - 40°) Ambient Air: 35° - 100° (2° - 38°)	
MAX. OPERATING PRESSURE PSI (BAR)		150 (10)	
INLET/OUTLET FLANGE SIZE*** INCHES (MM)		2 (51), 3 (76), 4 (102), 8 (203), 10 (254)	
WIPER OPTION		AUTOMATIC	
DIN FLANGES		OPTIONAL	
DIMENSIONS - FOR REFERENCE ONLY			
STANDARD CC DIMENSIONS - CARBON STEEL INCHES (MM) L X W X H		48 X 36 X 18 (1219 X 914 X 457)	
STANDARD TC DIMENSIONS - STAINLESS STEEL INCHES (MM) L X W X H		40 X 22 X 19 (1016 X 559 X 483)	

* Dose Level: >60 mJ/cm² after 5,000 hours of operation. **Additional voltages are available. *** ANSI class 150 flange.



sales@smithengineeringinc.com
 Main (952) 448-4412
 Sales (952) 448-4412
 Support (952) 448-0573



Aquafine is an ISO 9001:2008 certified company.