

## 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.

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Model: MPR	1L 12	2L 12	4L 12
<b>MAXIMUM FLOW RATE</b>			
DISINFECTION @ 95% UVT GPM (M <sup>3</sup> /HR)*	786 (179)	1549 (352)	2895 (658)
NUMBER OF UV LAMPS (MP)	1	2	4
<b>ELECTRICAL REQUIREMENTS</b>			
ELECTRICAL SUPPLY	208-240VAC 50/60Hz, SINGLE PHASE, 2 W + GND		
OPERATING POWER (NOMINAL WATTS)	3500	6500	12500
<b>CONTROLLER/DETECTOR</b>			
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		
<b>CONTROL CABINET</b>			
CONTROL CABINET RATING	UL TYPE 12		
MATERIALS OF CONSTRUCTION	PAINTED CARBON STEEL (STAINLESS STEEL OPTIONAL)		
ENCLOSURE HIGH TEMP WARNING	STANDARD		
<b>TREATMENT CHAMBER</b>			
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: >40 mJ/cm<sup>2</sup> after 5,000 hours of operation. \*\*Additional voltages are available. \*\*\* ANSI class 150 flange.



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THE UK'S LEADING PROVIDER OF UV DISINFECTION SYSTEMS