



## TROJANUVLOGIC™ SERIES // HIGH PERFORMANCE UV SYSTEMS

A robust, highly versatile and cost effective UV water treatment system featuring proven low-pressure, high-output amalgam lamp technology.



**MODEL SHOWN:** TrojanUVLogic 04AS20 // **INDUSTRIES:** Aquaculture, Food & Beverage, Life Sciences, Microelectronics, Recreational Waters // **FLOWRATES:** 230-7489 GPM @ 95% UVT, 290-8141 GPM @ 99% UVT // **APPLICATIONS:** Disinfection, Chlorine/Chloramine Destruction, Ozone Destruction // **DESIGN CAPABILITIES:** Custom Configurations or Skid Capabilities

### TROJANUVLOGIC SERIES

The “L-shaped” reactor design was developed using advanced computer modeling, resulting in 40% greater hydraulic efficiency than conventional systems and features the industry’s most proven low-pressure, high-output (LPHO) amalgam lamp and variable output power supply technology.

The TrojanUVLogic Series consists of a 316L stainless steel treatment chamber and a UL TYPE-3R 304L stainless steel control cabinet featuring a microprocessor-based controller. The compact size maximizes installation flexibility and preserves floor space with the ability to mount in line, horizontally or vertically.

Single-ended lamps and quartz sleeves allow for quick change-outs without tools. TrojanUVLogic systems are CE compliant as well as NSF 50 and cULus certified.

Aquafine TrojanUVLogic™ series for disinfection, ozone destruction, chlorine and chloramine reduction utilize amalgam lamp technology to meet rigid quality standards within the Aquaculture, Recreational Waters, Life Sciences and Food & Beverage industries.

### Amalgam technology

Aquafine’s TrojanUVLogic™ systems feature the industry’s most advanced low-pressure, high-output (LPHO) amalgam lamp technology and variable output power supplies, which optimize both the dose delivered and the power consumed by the system. TrojanUVLogic systems require only one-third the number of lamps to deliver a dose equivalent to those of conventional UV systems.

### Safe & Effective

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: TrojanUVLogic	02AS20 <sup>††</sup>	03AS20	04AS20	03AL20 <sup>††</sup>	06AS20	04AL20 <sup>††</sup>	08AS20	06AL20	08AL20	06AL30	08AL30	12AL30	12AL40	18AL40	18AL50 <sup>††</sup>	24AL50 <sup>††</sup>	30AL50 <sup>††</sup>
MAXIMUM FLOW RATE																	
DISINFECTION @ 95%UVT GPM (M³/HR)*	230 [52]	350 [80]	480 [110]	560 [130]	695 [160]	780 [177]	875 [200]	852 <sup>‡</sup> [194]	1014 <sup>‡</sup> [230]	1750 [400]	2270 [516]	2765 [628]	3643 [828]	4005 [910]	6145 [1396]	8141 [1850]	7489 [1702]
DISINFECTION @ 99% UVT GPM (M³/HR)*	290 [66]	430 [97]	585 [133]	690 [156]	835 [189]	935 [212]	1010 [229]	1014 <sup>‡</sup> [230]	1040 <sup>§</sup> [236]	2275 [517]	2240 <sup>‡</sup> [509]	2730 <sup>‡</sup> [620]	3989 [906]	4750 <sup>**</sup> [1080]	7320 <sup>‡</sup> [1664]	8141 <sup>§</sup> [1850]	8141 <sup>††</sup> [1850]
OZONE DEST. @ 99% UVT GPM (M³/HR)†	100 [23]	145 [32]	195 [44]	235 [53]	280 [63]	320 [72]	345 [78]	450 [102]	546 [124]	760 [173]	990 [225]	1240 [282]	1772 [403]	2589 [588]	3253 [739]	4292 [975]	5265 [1196]
NUMBER OF UV LAMPS (LP)	2	3	4	3	6	4	8	6	8	6	8	12		18		24	30
ELECTRICAL REQUIREMENTS																	
ELECTRICAL SUPPLY	208-240VAC 50Hz SINGLE PHASE & 60Hz SINGLE PHASE 2+ GND																
OPERATING POWER (NOMINAL WATTS)	346	534	692	849	1007	1113	1323	1639	2170	1639	2170	3218		4750		6310	7870
CONTROLLER																	
UV SENSOR W/ 4-20mA	STANDARD																
LAMP STATUS INDICATOR	STANDARD																
LAMP OUT ALERT DRY CONTACT	STANDARD																
TEMP. SWITCH	STANDARD																
RUNNING TIME INDICATOR	STANDARD																
REMOTE ON/OFF 24-240V AC/DC	STANDARD																
CONTROL CABINET (CC)																	
CC SYSTEM RATING	NEMA 12																
MATERIALS OF CONSTRUCTION	304 STAINLESS STEEL (PAINTED CARBON STEEL OPTIONAL)																
CC DIMENSIONS - HXWXD INCHES (CONTACT AQUAFINE FOR CE)	24 X 24 X 10						24 X 30 X 10	24 X 24 X 10	24 X 30 X 10	24 X 24 X 10	24 X 30 X 10			48 X 36 X 10			
TREATMENT CHAMBER																	
MATERIALS OF CONSTRUCTION	316L STAINLESS STEEL																
INTERNAL SURFACE FINISH	Ra 32 [Ra 15 OPTIONAL]																
OPERATING TEMPERATURE °F (°C)	Water: 41° - 104° [5° - 40°] Ambient Air: 34° - 104° [1° - 40°]																
MAX. OPERATING PRESSURE PSI (BAR)	150 [10]																
INLET/OUTLET FLANGE INCHES (MM)	4 [100]		6 [150]						10 [250]			14 [350]		18 [450]			
WIPER OPTION	MANUAL	MANUAL OR AUTOMATIC									AUTOMATIC						

Dose Levels: \* 30 mJ/cm² after 12,000 hours of operation. † 90 mJ/cm² after 12,000 hours of operation.

‡ 40 mJ/cm² after 12,000 hours of operation.

§ 47 mJ/cm² after 12,000 hours of operation.

\*\* 49 mJ/cm² after 12,000 hours of operation.

†† 58 mJ/cm² after 12,000 hours of operation.

†† These models are not NSF certified. For more information, contact Aquafine.



Aquafine is an ISO 9001 certified company.