

## 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**	03AS20	04AS20	05AL20**	06AS20	07AL20**	08AS20	09AL20	10AL20	11AL20	12AL30	13AL40	14AL50**	15AL50**	16AL50**	17AL50**	18AL50**	19AL50**	20AL50**
<b>MAXIMUM FLOW RATE</b>																			
DISINFECTION @ 95%UVT GPM (M <sup>3</sup> /HR)*	230 (62)	350 (80)	480 (110)	560 (130)	695 (160)	780 (177)	875 (200)	852 (194)	1014 <sup>‡</sup> (230)	1750 (400)	2270 (516)	2765 (628)	3643 (828)	4005 (910)	6145 (1396)	8141 (1850)	8145 (1850)	7489 (1702)	
DISINFECTION @ 99% UVT GPM (M <sup>3</sup> /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** (1080)	7320 <sup>‡</sup> (1664)	8141 <sup>††</sup> (1850)			
OZONE DEST. @ 99% UVT GPM (M <sup>3</sup> /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	2170	3218	4750	6310	7870
<b>CONTROLLER</b>														
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 36 X 10
	24 X 30 X 10	24 X 30 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/cm<sup>2</sup> after 9,000 hours of operation. † 90 mJ/cm<sup>2</sup> after 9,000 hours of operation.

‡ 40 mJ/cm<sup>2</sup> after 9,000 hours of operation.

§ 47 mJ/cm<sup>2</sup> after 9,000 hours of operation.

\*\* 49 mJ/cm<sup>2</sup> after 9,000 hours of operation.

†† 58 mJ/cm<sup>2</sup> after 9,000 hours of operation.

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



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Aquafine is an ISO 9001 certified company.

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