

# CSL™ plus Series High Performance UV Systems

For over 60 years, hospital and hotel installations worldwide, as well as Life Sciences and Microelectronic applications have relied on the quality and proven performance of Aquafine's CSL™ series.

SHOWN  
CSL™ plus  
12R/60

INDUSTRIES | Food & Beverage,  
Life Sciences, Microelectronics

FLOWRATES: 40-260 GPM @ 94% UVT,  
50-315 GPM @ 99% UVT



The sophisticated CSL™ plus series medium-flow models are engineered for indoor installation and controlled operating environments in numerous markets and applications.

## APPLICATIONS

While disinfection is the most common application for ultraviolet (UV) technology in water treatment, ozone destruction and TOC reduction are also common. After considering the appropriate variables, a properly designed and sized UV unit can be guaranteed and customized to suit your application needs, ensuring the integrity of the process and product.

## UV TECHNOLOGY

The use of UV light technology for water treatment has several advantages. UV does not 'add' anything to the water stream such as undesirable color, odor, chemicals, taste or flavor, nor does it generate harmful by-products. It only imparts energy to the water stream in the form of ultraviolet radiation altering the DNA of microorganisms present and thereby destroying them.

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

APPLICATIONS | Disinfection, Ozone Destruction,

DESIGN CAPABILITIES | Multi-Unit Skid Systems

## CSL™ PLUS SERIES

For over 60 years, the CSL™ series has been a popular choice for medium-flow models. Following a review with customers, the proven infrastructure of the CSL™ series has been refined, the result is our CSL™ plus series. The new CSL™ plus series provides more dependable performance, custom specifications, simplified maintenance and maximized UV lamp output at end-of-lamp life.

The CSL™ plus series consists of 316L stainless steel treatment chamber and a 304 stainless steel control panel in one integral unit. Complete with standard Lamp Status Indicator, the compact size maximizes installation flexibility and preserves floorspace. Single-ended (SE) lamps allow quick change-outs without tools. Upgrades for legacy models are available. CE rated for 240V only.

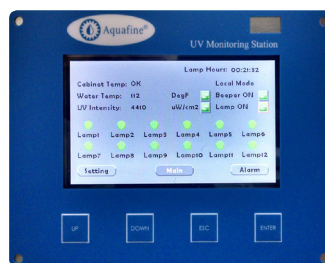
Flow rates are also available for other applications. For questions regarding your application needs, please contact your local Authorized Distributor or Aquafine Corporation for more information.

### Added Benefits

- Improve lamp performance (higher flow rate and high dosage)
- 2 year extended warranty

Equipped with new universal controller

- Centralized real-time data status display
- Ease-of-use operation interface
- Improved diagnosis capability and control reliability



**Aquafine**®

# CSL™ plus Series

## High Performance UV Water Treatment System

Model: CSL™ plus		4R	6R	8R	12R	8R60	10R60	12R60
<b>MAXIMUM FLOW RATE</b>								
DISINFECTION (@94% UVT) GPM (M <sup>3</sup> /HR)*	53(12)	80(18)	107(24)	173(39)	221(50)	287(65)	347(78)	347(78)
DISINFECTION (@99% UVT) GPM (M <sup>3</sup> /HR)*	66(15)	104(23)	133(30)	208(47)	267(60)	347(78)	420(95)	420(95)
NUMBER OF UV LAMPS (SINGLE-ENDED)	4	6	8	12	8	10	12	12
<b>ELECTRICAL REQUIREMENTS</b>								
OPERATING POWER WATTS	190	265	370	540	590	730	865	865
ELECTRICAL SUPPLY	120 or 240V/50-60Hz, SINGLE PHASE, 2 W + GND							
BALLAST TYPE	ELECTRONIC							
<b>TREATMENT CHAMBER</b>								
MATERIAL OF CONSTRUCTION	316L STAINLESS STEEL							
INTERNAL SURFACE FINISH	RA 32 ( RA 15 OPTIONAL)							
OPERATING TEMPERATURE F° (C°)	WATER: 50° – 100° ( 10° – 38° ) AMBIENT AIR: 50° – 110° ( 10° – 43° )							
MAX. OPERATING PRESSURE PSI(BAR)	120(8) (150 (10) OPTIONAL)							
INLET/ OUTLET FLANGE SIZES INCHES (MM)**	2 (50)	3(80)	3(80)	4(100)	4(100)	6(150)	6(150)	6(150)
SANITARY FITTING***	2	3	3	4	4	6	6	6
SAMPLE PORT SIZE NPT (MM)**	1/4" (7MM)							
DRAIN PORT SIZE NPT (MM){3A}**	1/4" (7MM)							
<b>CONTROL CABINET</b>								
CONTROL CABINET SYSTEM RATING	NEMA 1/ UL TYPE 1/ IP20							
MATERIALS OF CONSTRUCTION	304 STAINLESS STEEL							
<b>DIMENSIONS AND WEIGHT</b>								
OVERALL DIMENSIONS (LXWXH) INCHES (MM)****	42X17X30 (1067X432X762)		45X19X34 (1143X483X864)		71X20X39(1804X508X991)			
WEIGHT ( LBS.)	105 LBS.	105 LBS.	162 LBS.	177 LBS.	230 LBS.	206 LBS.	235 LBS.	235 LBS.
<b>CONTROLLER DETAILS</b>								
LAMP STATUS INDICATION	BASE MODEL			REMOTE OPTION			MONITORING OPTION	
LAMP RUN TIME	INCLUDED			INCLUDED			INCLUDED	
UNIT POWER ON TIME	INCLUDED			INCLUDED			INCLUDED	
HIGH WATER TEMPERATURE SHUT OFF	INCLUDED			INCLUDED			INCLUDED	
CABINET HIGH TEMPERATURE	INCLUDED			INCLUDED			INCLUDED	
ALARM HISTORY	INCLUDED			INCLUDED			INCLUDED	
LAMP REMOTE ON/OFF	INCLUDED (DRY CONTACTOR)			INCLUDED (DRY CONTACTOR)			INCLUDED (DRY CONTACTOR)	
LAMP OUT ALERT	INCLUDED (DRY CONTACTOR)			INCLUDED (DRY CONTACTOR)			INCLUDED (DRY CONTACTOR)	
UV INTENSITY AND TEMPERATURE MONITORING				INCLUDED (4-20 MA SIGNAL OUTPUT FOR UV & TEMP)				

\* DOSE Level > 30mj/cm2 after 9,000 hours of Operation, for disinfection only.  
 \*\* Standard ANSI Class 150 Flanges, DIN En 1092-1 flanges with BSP sample port and drain available as special order  
 \*\*\* 3A Tri-clamps Sanitary Connection 1/4" sample port available as special order  
 \*\*\*\* CSL plus packed and ready to ship.



**Aquafine®**  
 A TROJAN TECHNOLOGIES BUSINESS

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