

Optima™ plus Series High Performance UV Systems

Efficient and cost effective, the Optima™ plus Series provides proven performance and technology in TOC reduction and Chlorine reduction applications for Food & Beverage, Life Sciences and Microelectronics.

SHOWN
Optima™ plus
200

INDUSTRIES | Food & Beverage,
Life Sciences, Microelectronics

FLOWRATES: 2-35GPM @ 99%UVT



Utilized for TOC reduction and chlorine destruction, the Optima™ plus Series is not only cost effective, but is proven to be a reliable, innovative and environmentally smart alternative.

APPLICATIONS

While disinfection is the most common application for ultraviolet (UV) technology in water treatment, TOC reduction is also used, by incorporating a 185nm UV system strategically located in conjunction with other equipment. After considering the appropriate variables, a properly sized UV unit can be guaranteed to reduce TOC's, ensuring the integrity of the process and product.

UV TECHNOLOGY

Aquafine UV systems are engineered to focus the power of UV light, utilizing specially designed Aquafine Colorguard™ lamps, recognized in the industry for unsurpassed performance and reliability.

SAFE & EFFECTIVE

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. UV only imparts energy to the water stream in the form of ultraviolet to reduce chemical compounds present in the water.

APPLICATIONS | Chlorine Destruction, TOC Reduction

DESIGN CAPABILITIES | Custom Configurations

Optima™ plus Series

The Optima™ plus Series optimizes process performance with a wide range of flowrates, designed with maximized efficiency for TOC (total oxidizable carbon) reductions and chlorine destruction.

The series consists of 316L stainless steel treatment chamber and a stainless steel control panel in one integral unit or, a separate control cabinet for remote models (U). All remote models have a standard NEMA rated stainless steel control cabinet.

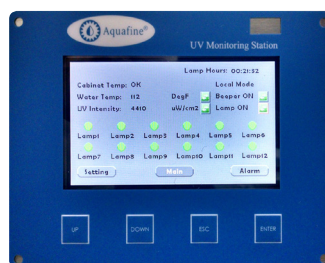
Complete with highly integrated new universal controller, the systems compact size allows for a smaller footprint, maximizing installations flexibility. Single-ended (SE) lamps allow quick change-outs without tools.

Added Benefit in Optima™ plus Series

- Improved lamp performance (higher low 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



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



Optima™ plus Series High Performance UV Water Treatment System

Model: Optima™ plus	50	100	150	200	320	400	520	630
MAXIMUM FLOW RATE								
(@99% UV) GPM (M3/HR)*	2(0.5)	5(1)	8(2)	11(2)	17(4)	22(5)	29(6)	35(8)
NUMBER OF UV LAMPS (SE)	2	4	6	8	12	8L	10L	12L
ELECTRICAL REQUIREMENTS								
ELECTRICAL SUPPLY	120/240V/50-60Hz, SINGLE PHASE, 2 W + GND							
OPERATING POWER (NOMINAL WATTS)	265	480	700	910	1345	1300	1600	1920
BALLAST TYPE	HIGH EFFICIENCY ELECTRONIC							
CONTROL CABINET								
CC SYSTEM RATING STD/"U"	NEMA 1/ NEMA 3R							
MATERIAL OF CONST. STD/"U"	304 STAINLESS STEEL							
TREATMENT CHAMBER								
MATERIALS OF CONSTRUCTION	316L STAINLESS STEEL							
INTERNAL SURFACE FINISH	Ra 32 (Ra 15 OPTIONAL)							
OPERATING TEMPERATURE °F (°C)	Water: 50° - 100° (10° - 38°) Ambient Air: 35° - 110° (2° - 43°)							
MAX. OPERATING PRESSURE PSI (Bar)	150 (10)							
INLET/OUTLET FLANGE INCHES (mm)	2(50)	2(50)	2(50)	2(50)	2(50)	2 OR 3** (50 OR 80**)	2 OR 3** (50 OR 80**)	2 OR 3** (50 OR 80**)
DRAIN CONNECTION	3/8 (10mm)							
SANITARY FITTINGS & DIN FLANGES***	OPTIONAL							
BAFFLE	STANDARD							
DIMENSION & WEIGHT****								
STANDARD DIMENSIONS INCHES (mm) LXWXH	44X33X24 (1118X839X610)	42X17X30 (1067X432X762)		45X19X34 (1143X483X864)			71X20X39 (1804X508X991)	
"U" REMOTE TYPE DIMENSIONS INCHES (mm) LXWXH	N/A	47X34X39 (1194X864X991)		47X34X39 (1194X864X991)			71X20X39 (1804X508X991)	
WEIGHT (Lbs.) STANDARD	78 Lbs.	105 Lbs.	125 Lbs.	225 Lbs.	320 Lbs.	250 Lbs.	325 Lbs.	460 Lbs.
WEIGHT (Lbs.) "U" REMOTE	N/A	300 Lbs.	320 Lbs.	335 Lbs.	370 Lbs.	405 Lbs.	328 Lbs.	535 Lbs.

CONTROLLER DETAILS & DETECTOR	50	FOR OTHER MODELS OF OPTIMA PLUS SERIES		
	BASE MODEL ONLY	BASE MODEL	REMOTE OPTION	UV MONITORING OPTION
LAMP STATUS INDICATION	LED	INCLUDED	INCLUDED	INCLUDED
LAMP RUN TIME	ANALOG	INCLUDED	INCLUDED	INCLUDED
UNIT POWER ON TIME	NA	INCLUDED	INCLUDED	INCLUDED
HIGH WATER TEMPERATURE SHUT OFF	STD	INCLUDED	INCLUDED	INCLUDED
CABINET HIGH TEMPERATURE SHUT OFF	NA	INCLUDED	INCLUDED	INCLUDED
ALARM HISTORY	NA	INCLUDED	INCLUDED	INCLUDED
LAMP REMOTE ON/OFF	NA		INCLUDED (DRY CONTACT)	INCLUDED (DRY CONTACT)
LAMP OUT ALERT	ANALOG		INCLUDED (DRY CONTACT)	INCLUDED (DRY CONTACT)
UV INTENSITY AND TEMPERATURE MONITORING	OPTIONAL			INCLUDED (4-20 mA SIGNAL OUTPUT FOR UV & TEMP)

* DOSE Level > 600mJ/cm² after 9,000 hours of operation.
 ** Standard ANSI B16.5 Class 150 Flanges. Optional 3" ANSI.
 *** Optional 3A Sanitary Connection and DIN En 1092-1 flanges with sample port and drain available as special order
 **** Optima plus packed and ready to ship. Dimensions are for reference only.



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All specifications are subject to change without notice.
 For additional requirements, please contact Aquafine Corporation.