

OPTIMA™ SERIES // HIGH PERFORMANCE UV SYSTEMS

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



MODEL SHOWN: Optima 400 // **INDUSTRIES:** Food & Beverage, Life Sciences, Microelectronics // **FLOWRATES:** 34-442 GPM @ 94% UVT, 41-536 GPM @ 99% UVT // **APPLICATIONS:** Disinfection, Chlorine Destruction, TOC Reduction // **DESIGN CAPABILITIES:** Custom Configurations

Optima™ Series

The Optima™ Series optimizes process performance with a wide range of flowrates, designed with maximized efficiency for TOC reduction 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.

The systems compact size allows for a smaller footprint, maximizing installation flexibility. Single-ended (SE) lamps allow quick change-outs without tools.

Utilized for TOC reduction and chlorine destruction, the Optima™ Series is cost-effective and proven to be a reliable, innovative and environmentally smart choice.

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 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.

OPTIMA™ SERIES // HIGH PERFORMANCE UV SYSTEMS

Model: Optima™	50	100	150	200	320	400	520	630
MAXIMUM FLOW RATE								
DISINFECTION (@94% UVTI) GPM (M ³ /HR)*	34 (8)	68 (16)	102 (23)	136 (31)	221 (50)	282 (64)	366 (83)	442 (100)
DISINFECTION (@99% UVTI) GPM (M ³ /HR)*	41 (9)	85 (19)	133 (30)	170 (39)	265 (60)	340 (77)	442 (100)	536 (122)
NUMBER OF UV LAMPS (HE SE)	2	4	6	8	12	8 L	10 L	12 L
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	HE ELECTRONIC							
CONTROLLER/DETECTOR								
UV TEMP. & MONITORING SYSTEM	OPTIONAL							
LAMP STATUS INDICATOR	STANDARD							
LAMP OUT ALERT (LOA)**	OPTIONAL							
RUNNING TIME METER	STANDARD							
HAND/OFF/AUTO (HOA)	OPTIONAL							
CONTROL CABINET								
CC SYSTEM RATING STD / "U"	NEMA 1 / NEMA 3R							
MATERIALS 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)	1 1/2 (40)	3 (80)	3 (80)	3 (80)	4 (100)	6 (150)	6 (150)	2, 3 or 6 (50, 80 or 150)
HOT WATER SANITIZATION °F (°C)	170° (77°) AVAILABLE WITH U.S. COMP. NUTS ONLY							
SANITARY FITTINGS	OPTIONAL							
BAFFLE	OPTIONAL (REQUIRED FOR CHLORINE & TOC APPLICATIONS)							
DIMENSIONS - FOR REFERENCE ONLY								
STANDARD CC & TC DIMENSIONS INCHES (MM) LXWXH	39 X 7 X 21 (991 X 178 X 533)	40 X 9 X 23 (1016 X 229 X 584)	44 X 11 X 28 (1118 X 280 X 711)	44 X 11 X 28 (1118 X 280 X 711)	68 X 11 X 30 (1727 X 280 X 762)			
"U" TYPE CC DIMENSIONS INCHES (MM) LXWXH	NA	NA	24 X 11 X 26 (609 X 280 X 660)	24 X 11 X 26 (609 X 280 X 660)				
"U" TYPE TC DIMENSIONS INCHES (MM) LXWXH	NA	40 X 11 X 22 (1016 X 280 X 559)	40 X 11 X 24 (1016 X 280 X 610)	40 X 11 X 24 (1016 X 280 X 610)	68 X 11 X 26 (1727 X 280 X 712)			

* Dose Level: 30 mJ/cm² after 8,000 hours of operation - for disinfection only.



North America & International
 29010 Ave Paine, Valencia, CA 91355
 P +1 661 257 4770 F +1 661 257 2489
 sales@aquafineuv.com | www.aquafineuv.com

Europe
 Ramskamp 77-85 D-25337 Elmshorn, Germany
 P +49 4121 57806 13 F +49 4121 57806 30
 saleseu@aquafineuv.com | www.aquafineuv.com



Victory House
 Victory Park Road
 Addlestone, Surrey
 KT15 2AX

T: 01932 852423
 F: 01932 847170
 E: sales@kkwater.com
 www.kkwater.com



© Aquafine Corporation 2015. All rights reserved. This document is not to be copied, electronically stored or reproduced without written permission from Aquafine Corporation. All specifications are subject to change without notice. For additional requirements, please contact Aquafine Corporation.

THE UK'S LEADING PROVIDER OF UV DISINFECTION SYSTEMS