

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.

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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)	44 X 11 X 28 (1118 X 280 X 711)	68 X 11 X 30 (1727 X 280 X 762)	68 X 11 X 30 (1727 X 280 X 762)	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)	24 X 11 X 26 (609 X 280 X 660)	24 X 11 X 26 (609 X 280 X 660)	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 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)	40 X 11 X 24 (1016 X 280 X 610)	40 X 11 X 24 (1016 X 280 X 610)	40 X 11 X 24 (1016 X 280 X 610)

* 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



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