Optima HX™ Series

High Performance UV Systems

Efficient and cost effective, the Optima HX provides proven performance and technology in numerous application such as Food & Beverage, Life Sciences and Microelectronics.

SHOWN
Optima HX™
1350

INDUSTRIES | Food & Beverage, Life Sciences, Microelectronics

FLOWRATES: 40-1300GPM @ 94%UVT, 45-1400GPM @ 99%UVT

APPLICATIONS | Disinfection

DESIGN CAPABILITIES | Custom Configurations

OPTIMA HX™ SERIES

The Optima™ HX series was designed with a sophisticated sizing program, combining Multiple Source Summation (MPSS) and Computational Fluid Dynamics (CFD), critical in calculating fluency rates, flow patterns and velocity distribution.

The series consists of 316L stainless steel treatment chamber and a stainless steel control panel in one integral unit for models with reactors up to 8" in diameter. Models HX 02BDSU and above have a standard UL TYPE - 1 painted carbon steel control cabinet.

With low-pressure high-output lamp (LPHO) technology, the HX lamp provides increased process performance and extended lamp life, while the systems compact size allows for a smaller footprint, maximizing installations flexibility. Single-ended (SE) HX lamps allow quick change-outs without tools.

Utilized for ozone destruction and disinfection, the Optima HX™ is not only cost effective, but proves to be a reliable, innovative and environmentally smart alternative.

APPLICATIONS

While disinfection is the most common application for ultraviolet (UV) technology in water treatment, ozone destruction is also used. Prior to point-of-use, the residual ozone needs to be destroyed to ensure the process water is not compromised. After considering the appropriate variables, a properly sized UV unit can be guaranteed to destroy the ozone to non-detectable limits, ensuring the integrity of the process and product.

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 light to inactivate micro-organisms or reduce chemical compounds present in the water.

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

Aquafine®
60 Years of Pure Quality

Optima HX™ Series High Performance UV Water Treatment System

Specifications:

Model: Optima HX™	02 ADS	02 BDS	02 CDS	02 BDL	02DDS	02CDL	02DDL	04 CDL	06 CDL	05 DDL	06 DDL	08 DDL	08 EDL	08 FDL	08 GDL	10 GDL	12 GDL
MAXIMUM FLOW RATE																	
DISINFECTION (@94% UVT) GPM (M^3/HR)*	40 (9)		60 (14)	78 (18)	90 (20)	130 (30)	175 (40)	251 (57)	335 (76)	415 (94)	500 (114)	550 (125)	670 (152)	800 (182)	925 (210)	1100 (250)	1300 (295)
DISINFECTION (@99% UVT) GPM (M^3/HR)*	45 (10)		71 (16)	90 (20)	115 (26)	150 (34)	220 (50)	300 (68)	405 (92)	520 (118)	626 (142)	700 (159)	850 (193)	1070 (243)	1200 (273)	1400 (318)	N/A
NUMBER OF UV LAMPS (HX SE)	2							4	6	5	6	8				10	12
ELECTRICAL REQUIREMENTS																	
ELECTRICAL SUPPLY	120/240V/50-60Hz, SINGLE PHASE, 2 W + GND																
OPER. POWER (NOMINAL WATTS)	276			360	276	360		600	840	768	840	1116				1380	
BALLAST TYPE	ELECTRONIC																
CONTROLLER/DETECTOR																	
UV VISION 2000 G400 SERIES	N/A							OPTION FOR REMOTE (“U”) MODEL ONLY					OPTIONAL				
UV TEMP. & MONITORING SYSTEM	OPTIONAL																
LAMP STATUS INDICATOR	STANDARD																
LAMP OUT ALERT (LOA)	OPTIONAL																
RUNNING TIME METER	STANDARD																
HAND/OFF/AUTO (HOA)	NA	OPTIONAL															
4-20mA OUTPUT SIGNAL	OPTIONAL																
CONTROL CABINET																	
CC SYSTEM RATING	C.S - UL TYPE 1, S.S. - UL TYPE 3R FOR REMOTE “U” ONLY												C.S - UL TYPE 1, S.S. - UL TYPE 3R				
MATERIALS OF CONST. STD / “U”	304 S.S. / C.S., OPTIONAL 304 S.S												C.S., OPTIONAL 304 S.S				
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. OPER. PRESSURE PSI (BAR)	150 (10)																
INLET/OUTLET FLANGE INCHES (MM)	2 (50)				3 (80)			4 (102)		6 (150)				8 (200)			
HOT WATER SANIT. °F (°C)	170° (77°) AVAILABLE WITH S.S. COMP. NUTS ONLY																
SANITARY FITTINGS	OPTIONAL																
DIMENSIONS - *FOR REFERENCE ONLY*																	
OVERALL DIMENSIONS INCHES HXWXD	20.50 X 38.50 X 7	15 X 40 X 12	15 X 40 X 13.50	15 X 52 X 12	21.50 X 40 X 15.50	22 X 68 X 10	24 X 68 X 11	22 X 68 X 10		24 X 68 X 11		27 X 68 X 12	44.50 X 67 X 14.50	46.50 X 67 X 16.50	48.50 X 67 X 18.50		
OVERALL DIMENSIONS (MM) HXWXD	521 X 968 X 176	366 X 1010 X 300	364 X 1012 X 338	366 X 1321 X 300	540 X 1010 X 387	556 X 1721 X 254	607 X 1721 X 274	556 X 1721 X 254		610 X 1721 X 280		679 X 1721 X 298	1121 X 1702 X 362	1174 X 1702 X 413	1223 X 1702 X 464		

** Dose Level: 30 mJ/cm^2 after 9,000 hours of operation.*

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

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ISO 9001:2000 Certified