Optima HX™ mini Series

High Performance UV Systems

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

SHOWN
Optima HX™
Mini
02 BDM U

INDUSTRIES | Food & Beverage, Life Sciences, Microelectronics

FLOWRATES: 9-33GPM @ 94%UVT, 10-39GPM @ 99%UVT

APPLICATIONS | Disinfection, Ozone Destruction

DESIGN CAPABILITIES | Custom Configurations

OPTIMA HX™ mini SERIES

The Optima HX™ mini 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 6" in diameter. All models 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. All Optima HX™ mini systems are cULus certified.

Utilized for ozone destruction and disinfection, the Optima HX™ mini 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 precess 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™ mini Series

High Performance UV Water Treatment System

Model: Optima HX™mini	HX01 BDM U	HX02 BDM U	HX02 CDM U	HX03 CDM U
MAXIMUM FLOW RATE				
DISINFECTION (@94% UVT) GPM (M^3/HR)*	9 (2.0)	16 (3.6)	24 (5.4)	33 (7.5)
DISINFECTION (@99% UVT) GPM (M^3/HR)*	10 (2.2)	17 (3.9)	28 (6.3)	39 (8.9)
NUMBER OF UV LAMPS (HX SE)	1	2	2	3
ELECTRICAL REQUIREMENTS				
ELECTRICAL SUPPLY	120/240V/50-60Hz, SINGLE PHASE, 2 W + GND			
OPERATING POWER	50	100	100	150
BALLAST TYPE	ELECTRONIC			
CONTROLLER/DETECTOR				
UV G400 SERIES	N/A			
UV TEMP. & MONITORING SYSTEM	OPTIONAL			
LAMP STATUS INDICATOR	STANDARD			
LAMP OUT ALERT (LOA)	OPTIONAL			
RUNNING TIME METER	STANDARD			
HAND/OFF/AUTO (HOA)	OPTIONAL			
4-20mA OUTPUT SIGNAL	OPTIONAL			
CONTROL CABINET				
CC SYSTEM RATING	CARBON STEEL - UL TYPE 1, STAINLESS STEEL - UL TYPE 3R OR NEMA 4X			
MATERIALS OF CONST. STD / "U"	CARBON STEEL (304 STAINLESS STEEL OPTIONAL)			
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. OPERATING PRESSURE PSI (BAR)	150 (10)			
INLET/OUTLET FLANGE INCHES (MM)	1 (25)			2 (50)
INLET/OUTLET FLANGE TYPE	FNPT (FLANGED OR SANITARY OPTIONAL)			
HOT WATER SANITIZATION °F (°C)	170° (77°) AVAILABLE WITH S.S. COMP. NUTS ONLY			
DIMENSIONS - *FOR REFERENCE ONLY*				
STANDARD CC DIMENSIONS - CARBON STEEL INCHES (MM) L X W X H	16 X 7 X 18 (406 X 178 X 457)			
STANDARD TC DIMENSIONS - STAINLESS STEEL INCHES (MM) L X W X H	24 X 7 X 11 (609 X 178 X 279)		24 X 9 X 19 (609 X 229 X 483)	

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

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Aquafine is an ISO 9001:2008 certified company.

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