

LS HX™ SERIES // HIGH PERFORMANCE UV SYSTEMS

The LS HX™ series uses Aquafine's proven low-pressure high-output lamp technology to provide maximized disinfection for Liquid Sweetener applications in the Food & Beverage beverage industry.



MODEL SHOWN: LS HX 12R/60 U // **INDUSTRIES:** Food & Beverage // **FLOWRATES:** 25-150 GPM @ 55% UVT // **APPLICATIONS:** Disinfection // **DESIGN CAPABILITIES:** Modular Skid Systems

LS HX SERIES

Aquafine Liquid Sweetener (LS) systems are manufactured for the disinfection of syrups, including simple syrups, syrup mixes and high-fructose corn syrups.

Aquafine's HX lamp technology provides increased process performance and extended lamp life, while the systems compact size minimizes the installations footprint. Our single-ended (SE) HX lamps allow quick change-outs without tools.

The LS HX series consists of a 316L stainless steel treatment chamber with sanitary connections and a standard stainless steel control cabinet, with a maximum cable length of 15 feet (5 metres). The control cabinet features the UV & temperature monitoring system for 12 lamp models or UVG400 controller for 24 and 36 lamp models. These systems are CE listed and UL pending.

Aquafine LS HX™ disinfection systems can significantly reduce microbial counts by destroying at least 99.9% of the bacteria present in the influent syrup stream.

UV Technology

Aquafine LS HX systems are engineered to focus the power of concentrated UV light utilizing several specially designed Aquafine Colorguard® HX lamps. Specially manufactured with ceramic lamp bases, these lamps offer advantages over non-ceramic material such as greater high voltage electrical insulation, rigidity, superior strength, improved temperature tolerance and are impervious to UV degradation.

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: LS HX	12R U	12R/60 U	24R/60 U	36R/60 U
MAXIMUM FLOW RATE				
(@ 55% UVT) GPM (M ³ /HR)*	25 (6)	50 (11)	100 (23)	150 (34)
NUMBER OF UV LAMPS (HX SINGLE-ENDED)	12	12	24	36
ELECTRICAL REQUIREMENTS				
ELECTRICAL SUPPLY	120-240V/50-60Hz, SINGLE PHASE, 2 W + GND			208-240V/50-60Hz, SINGLE PHASE, 2 W + GND
OPERATING POWER (NOMINAL WATTS)	1345	1920	3800	5700
CONTROLLER/DETECTOR				
UV TEMP. & MONITORING SYSTEM	STANDARD		NA	
UV G400 SERIES	NA		STANDARD	
LAMP STATUS INDICATOR			STANDARD	
LAMP OUT ALERT (LOA)	OPTIONAL		STANDARD	
RUNNING TIME METER/CYCLE COUNTER			STANDARD	
HAND OFF AUTO (HOA) 24VDC	OPTIONAL		STANDARD	
4-20mA OUTPUT SIGNAL			STANDARD	
CONTROL CABINET				
CONTROL CABINET SYSTEM RATING	NEMA TYPE 3R			
MATERIALS OF CONSTRUCTION	STAINLESS STEEL			
TREATMENT CHAMBER				
MATERIALS OF CONSTRUCTION	316L STAINLESS STEEL			
INTERNAL SURFACE FINISH	Ra 32			
OPERATING TEMPERATURE °F (°C)	Water: 50° - 104° (10° - 40°) Ambient Air: 35° - 100° (2° - 38°)			
MAX. OPERATING PRESSURE PSI (BAR)	150 (10)			
INLET/OUTLET FLANGE SIZE - TRI CLOVER INCHES (MM)	2 (50)	3 (80)		4 (100)
SANITARY FITTINGS	STANDARD			
DIMENSIONS - FOR REFERENCE ONLY				
STANDARD CC DIMENSIONS - CARBON STEEL INCHES (MM) L X W X H	23 X 11 X 25 (584 X 280 X 635)		30 X 16 X 22 (762 X 406 X 559)	30 X 16 X 30 (762 X 406 X 762)
STANDARD TC DIMENSIONS - CARBON STEEL INCHES (MM) L X W X H	43 X 11 X 20 (1092 X 280 X 508)	72 X 12 X 23 (1829 X 305 X 584)	72 X 23 X 30 (1829 X 305 X 762)	72 X 34 X 30 (1829 X 864 X 762)

* Dose Level: >50 mJ/cm² after 9,000 hours of operation.



Aquafine is an ISO 9001:2008 certified company.