

## 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
<b>MAXIMUM FLOW RATE</b>				
(@ 55% UVTI) GPM (M <sup>3</sup> /HR)*	25 (6)	50 (11)	100 (23)	150 (34)
NUMBER OF UV LAMPS (HX SINGLE-ENDED)	12	12	24	36
<b>ELECTRICAL REQUIREMENTS</b>				
ELECTRICAL SUPPLY	120-240V/50-60Hz, SINGLE PHASE, 2 W + GND			
OPERATING POWER (NOMINAL WATTS)	1345	1920	3800	5700
<b>CONTROLLER/DETECTOR</b>				
UV TEMP. & MONITORING SYSTEM	STANDARD			
UV G400 SERIES	NA			
LAMP STATUS INDICATOR	STANDARD			
LAMP OUT ALERT (LOA)	OPTIONAL			
RUNNING TIME METER/CYCLE COUNTER	STANDARD			
HAND OFF AUTO (HOA) 24VDC	OPTIONAL			
4-20mA OUTPUT SIGNAL	STANDARD			
<b>CONTROL CABINET</b>				
CONTROL CABINET SYSTEM RATING	NEMA TYPE 3R			
MATERIALS OF CONSTRUCTION	STAINLESS STEEL			
<b>TREATMENT CHAMBER</b>				
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			
<b>DIMENSIONS - FOR REFERENCE ONLY</b>				
STANDARD CG 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/cm<sup>2</sup> after 9,000 hours of operation.



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