

## SWIFTBEVERAGE™ SERIES // HIGH PERFORMANCE UV SYSTEMS

Independently validated UV disinfection technology which meets the USEPA UV Design Guidance Manual performance requirements while providing the lowest total cost of ownership.



**MODEL SHOWN:** SwiftBeverage SBV300 // **INDUSTRIES:** Food & Beverage // **FLOWRATES:** 25-850 GPM // **APPLICATIONS:** Bioassay Validated Disinfection // **DESIGN CAPABILITIES:** Custom Configurations or Skid Capabilities

### SWIFTBEVERAGE SERIES

A UV dose of 186 mJ/cm<sup>2</sup> is required by the USEPA for 4-log treatment of viruses. Validated in accordance with EPA recommended protocols, the SwiftBeverage series delivers the UV performance you require.

When validating our systems we chose to use a high-resistance surrogate to ensure our systems would perform consistently through a range of conditions. Witnessed by a third-party, our validation meets all the recommendations of the USEPA UV Guidance Manual, allowing beverage producers to implement a fully EPA-compliant solution for 4-log treatment of viruses with a single unit.

The system consists of a 316L stainless steel treatment chamber and a NEMA-3R stainless steel control cabinet with a microprocessor-based controller. Its compact size maximizes installation flexibility and preserves floor space with the ability to mount in line, horizontally or vertically. All systems comply with stringent NSF 61 standard.

The SwiftBeverage™ series safeguards against virtually all microorganisms, including *Cryptosporidium*, *Giardia* and Adenovirus.

#### Lamp Technology

The industry's most advanced low-pressure, high-output (LPHO) amalgam lamp technology is incorporated into our systems, providing efficient and cost effective treatment.

#### 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.

# SWIFTBEVERAGE™ SERIES // HIGH PERFORMANCE UV SYSTEMS

Model: Swift Beverage	SBV300	SBV600	SBV1200	SBV1800
<b>MAXIMUM FLOW RATE</b>				
DISINFECTION @ 97%UVT 25 - 850 GPM (M <sup>3</sup> /HR)*	106 (24)	234 (53)	678 (154)	830 (189)
NUMBER OF LAMPS (LPHO)	3	6	12	18
<b>ELECTRICAL REQUIREMENTS</b>				
ELECTRICAL SUPPLY	208-240VAC SINGLE PHASE 2 W + GND, 60Hz L-L, 50HZ L-N			
OPERATING POWER (W/VA)	810/649	1560/1591	3060/3122	4570/4750
<b>CONTROLLER</b>				
UV SENSOR W/ 4-20mA	1 SENSOR STANDARD / 2ND REDUNDANT SENSOR OPTIONAL			
LAMP STATUS INDICATOR	STANDARD			
LAMP OUT ALERT DRY CONTACT	STANDARD			
DOSE PACING	STANDARD			
TEMP. SWITCH	STANDARD			
RUNNING TIME INDICATOR	STANDARD			
DEDICATED DIGITAL ALARM OUTPUTS	STANDARD			
REMOTE ON/OFF 24-240V AC/DC	STANDARD			
SCADA COMMUNICATION/MODBUS 485	STANDARD			
<b>CONTROL CABINET</b>				
CC SYSTEM RATING	NEMA 3R (NEMA 4X OPTIONAL)			
MATERIALS OF CONSTRUCTION	304 STAINLESS STEEL			
CC DIMENSIONS - H X W X D INCHES	24 X 16 X 10		24 X 24 X 10	48 X 36 X 10
<b>TREATMENT CHAMBER</b>				
MATERIALS OF CONSTRUCTION	316L STAINLESS STEEL			
INTERNAL SURFACE FINISH	Ra 32 (Ra 15 OPTIONAL)			
OPERATING TEMPERATURE °F (°C)	34°-104° (1°-40°)			
MAX. OPERATING PRESSURE PSI (BAR)	150 (10)			
INLET/OUTLET SANITARY FERRULE INCHES (MM)	6 (152)	8 (203)	12 (305)	16 (406)**
AUTOMATIC WIPER	OPTIONAL			
TC DIMENSIONS - H X W X D INCHES	16 x 15 x 83	20 x 21 x 81	26 x 25 x 83	32 x 30 x 83

\* Validated Dose per USEPA UVDGM: 186 mJ/cm<sup>2</sup> after 9,000 hours of operation. \*\* ANSI FLANGE ONLY



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