

# SAG 120A

## High output amalgam uv systems for commercial pools and spa's



ChlorKing's Sentry ultraviolet light systems are leading the way to better, safer water. Their unique, forward-thinking design employs high output amalgam technology for better chloramine control and inactivation of chlorine resistant bacteria. Sentry Aqua Guard systems are designed for commercial pools and spa's, and they pay for themselves through lower cost of operation and a longer lasting system.

### The SAG 120A

The ChlorKing® Sentry SAG 120A uses low pressure high output amalgam UV technology to achieve 3 log reduction for the inactivation of chlorine resistant bacteria found in swimming pools and spa's. The system is designed with a patent pending quick disconnect sleeve assembly for removal / replace or repair, and can be installed horizontally or vertically to fit in most existing pump rooms. The SAG 120A is built with 316L stainless steel and is electropolished for a highly reflective interior.

### Specifications

- High output amalgam lamps [1]
  - › 254nm wave length for sterilization
  - › 185nm wave length for oxidation
  - › 13,000 hour EOL (end of life)
- Ozone production (Per lamp)
  - › 10w of 185nm produced in the quartz sleeve for hydroxyl radical production
- Built in safety sensors
  - › Pressure or flow sensor
  - Safety cover removal sensor
  - Audible or LED alarm for loss of wave length
- Operating temperature
  - › 35°F (2°C) to 115°F (46°C) air temperature
  - › 40°F (4°C) to 104°F (40°C) water temperature

- Electrical specifications
  - › Max primary amps – (1.2)
  - › Voltage / Hz – (120v 60Hz single phase)
  - › Breaker required – (10 amp)
- Dimensions
  - › 8 1/4"W x 43 7/8"H (UV chamber)
  - › 13"W x 17"H (Power box)
- Flanges / Unions
  - › 2" inlet & outlet flanges (Z or U configuration available)
- Max flow to achieve 45mj/cm2 @ 95% transmittance
  - › 50 gpm
- Max operating pressure
  - › 50 psi
- Chamber material
  - › 316L stainless steel - Electropolished

### Main Features

- High output amalgam lamps for chloramine reduction
- 254 & 185nm wave length lamps
- Ozone production for hydroxyl radicals
- Environmentally friendly
- Improved water and air quality for bather comfort
- NSF-50 tested and certified
- UL-1081 tested and certified
- CSA-C22.2 tested and certified

### Applications

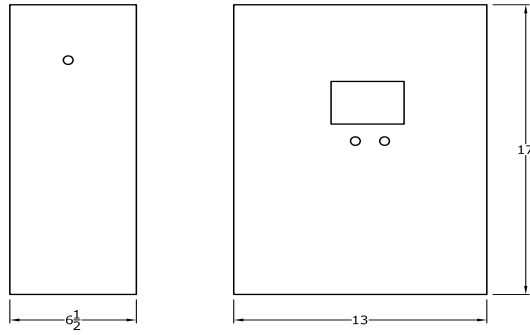
- Hotels / motels
- Fitness clubs / swim schools
- Country clubs / community pools
- Spray pads / fountains

### Order Information

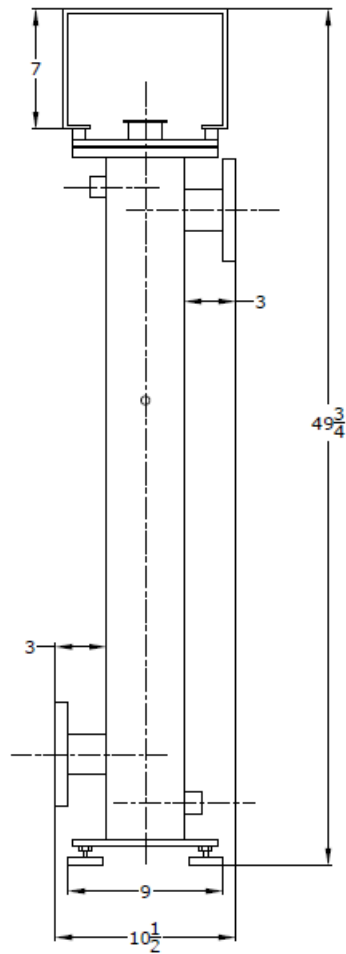
- Product code: SAG-120A

# SAG-120A Dimensions & Layout

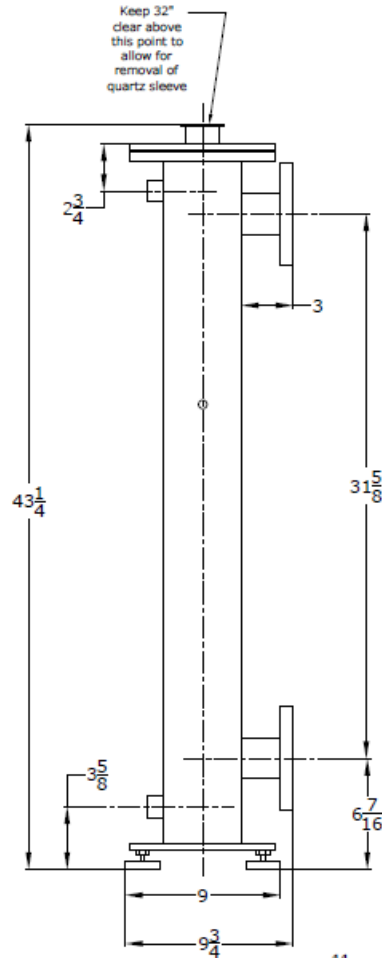
## Power Supply



## Chamber "Z" shape



## Chamber "U" shape



ChlorKing pioneered on-site chlorine generating technology in the 1970's. Realizing the potential for swimming pools and commercial applications, the company began generating "ultimate water" with simple, yet highly advanced technology. Today, ChlorKing® leads the way in commercial saline chlorination and is consistently seeking new frontiers in sanitizing solutions including ultraviolet light technology and their NEX-GEN® pH onsite chlorine generators. These environmentally friendly solutions are changing the way we treat H<sub>2</sub>O.



Saferwaterthroughsmartertechnology.

Salt Chlorination Systems • Ultraviolet Light Systems • Mixed Oxidant Systems