Aquafine’s SCD H™ series provides TOC and chlorine destruction solutions for high volume, ultrapure, waste or reclaim applications.

MODEL SHOWN: SCD H1350 // INDUSTRIES: Food & Beverage, Life Sciences, Microelectronics, Power Generation // FLOWRATES: 60-170 GPM @ 95% UVT, 70-200 GPM @ 99% UVT // APPLICATIONS: TOC, Chlorine Destruction // DESIGN CAPABILITIES: Modular Skid Systems

SCD H SERIES

These systems consists of 316L stainless steel treatment chamber and a UL TYPE-1 painted carbon steel control cabinet, with a maximum cable length of 15 feet (5 meters). The control cabinet features a microprocessor-based controller. The units compact size reduces footprint and maximizes installation flexibility. Aquafine’s sing-ended (SE) HX lamps allows for quick change-outs without tools.

By utilizing our modular skid configurations, less floor space is consumed and higher flow rates can be treated. Aquafine’s SCD H ultraviolet (UV) systems are innovative, reliable and extensively proven in ultrapure applications around the globe.

Aquafine TOC and chlorine destruction systems can be found worldwide in state-of-the-art microelectronic facilities and life science applications, where meeting stringent criteria of the cGMP and full acceptance by the FDA are mandatory.

UV Technology

Aside from being environmentally responsible, UV light technology for water treatment has several advantages. Aquafine utilizes UV light in a 185nm wavelength to effectively reduce TOC in ultrapure water applications and residual chlorine in make up water. This energy, more powerful than 254nm used in disinfection applications, promotes the formation of free radicals, leading to the oxidation of organics into CO₂ and H₂O.

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.
## SCD H™ SERIES // HIGH PERFORMANCE UV SYSTEMS

### Model: SCD H

<table>
<thead>
<tr>
<th>MAXIMUM FLOW RATE</th>
<th>600 H</th>
<th>700 H</th>
<th>1000 H</th>
<th>1200 H</th>
<th>1350 H</th>
<th>1450 H</th>
<th>1550 H</th>
<th>1750 H</th>
</tr>
</thead>
<tbody>
<tr>
<td>[0.95% UVT] GPM (M3/H)*</td>
<td>60 (14)</td>
<td>65 (15)</td>
<td>95 (22)</td>
<td>115 (24)</td>
<td>130 (30)</td>
<td>140 (32)</td>
<td>155 (35)</td>
<td>170 (39)</td>
</tr>
<tr>
<td>[0.9% UVT] GPM (M3/H)*</td>
<td>70 (14)</td>
<td>80 (18)</td>
<td>115 (24)</td>
<td>135 (31)</td>
<td>150 (34)</td>
<td>165 (38)</td>
<td>185 (42)</td>
<td>200 (45)</td>
</tr>
<tr>
<td>NUMBER OF UV LAMPS [HX SINGLE-ENDED]</td>
<td>16</td>
<td>20</td>
<td>24</td>
<td>36</td>
<td>40</td>
<td>44</td>
<td>40</td>
<td>44</td>
</tr>
</tbody>
</table>

### ELECTRICAL REQUIREMENTS

**OPERATING POWER (NOMINAL WATTS)**

<table>
<thead>
<tr>
<th>120-240V/50-60Hz, SINGLE PHASE, 2 W + GND</th>
<th>208-240V/50-60Hz, SINGLE PHASE, 2 W + GND</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700</td>
<td>6250</td>
</tr>
<tr>
<td>3250</td>
<td>6800</td>
</tr>
<tr>
<td>3800</td>
<td>6250</td>
</tr>
<tr>
<td>5700</td>
<td>6800</td>
</tr>
</tbody>
</table>

### CONTROLLER/DETECTOR

- **UV 6000 SERIES**
- **LAMP STATUS INDICATOR**
- **LAMP OUT ALERT (LOA)**
- **RUNNING TIME METER/CYCLE COUNTER**
- **HAND OFF AUTO (HOA) 24VDC**
- **UV & TEMPERATURE DETECTOR**

- **CONTROLLER/CABINET**
  - **SYSTEM RATING**
  - **MATERIALS OF CONSTRUCTION**
    - C.S. - UL TYPE 1, S.S. - UL TYPE 3R**
  - **REMOTE CABINET**
  - **ENCLOSURE HIGH TEMP WARNING**
  - **CABINET DIMENSIONS INCHES C.S. (S.S.)**
    - 22 X 30 X 14 (22 X 39 X 16)
    - 30 X 30 X 16 (30 X 39 X 16)
  - **MM C.S. (S.S.)**
    - 559 X 762 X 406 (559 X 990 X 406)
    - 787 X 787 X 406 (762 X 990 X 406)

### TREATMENT CHAMBER

- **MATERIALS OF CONSTRUCTION**
  - 316L STAINLESS STEEL
- **INTERNAL SURFACE FINISH**
  - Ra 32 (Ra 15 OPTIONAL)
- **OPERATING TEMPERATURE °F (°C)**
  - Water: 40° - 104° (4° - 40°)
  - Ambient Air: 35° - 100° (2° - 38°)
- **MAX. OPERATING PRESSURE PSI (BAR)**
  - 150 (10)

### Electrical Supply

- **ELECTRICAL SUPPLY**
  - 120-240V/50-60Hz, SINGLE PHASE, 2 W + GND
  - 208-240V/50-60Hz, SINGLE PHASE, 2 W + GND

### Smith Engineering Inc.

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* Dose Level: >600 mJ/cm² after 9,000 hours of operation.
** Available for stand alone units only; Skid systems available in UL TYPE-12 Painted Carbon Steel Enclosure only.