Efficient and cost effective, the Optima™ Series provides proven performance and technology in applications for the Food & Beverage, Life Sciences and Microelectronics industries.

Utilized for TOC reduction and chlorine destruction, the Optima™ Series is cost-effective and proven to be a reliable, innovative and environmentally smart choice.

**Optima™ Series**

The Optima™ Series optimizes process performance with a wide range of flowrates, designed with maximized efficiency for TOC reduction and chlorine destruction.

The series consists of 316L stainless steel treatment chamber and a stainless steel control panel in one integral unit or, a separate control cabinet for remote models [U]. All remote models have a standard NEMA rated stainless steel control cabinet.

The systems compact size allows for a smaller footprint, maximizing installation flexibility. Single-ended [SE] lamps allow quick change-outs without tools.

**MODEL SHOWN:** Optima 400 // **INDUSTRIES:** Food & Beverage, Life Sciences, Microelectronics // **FLOWRATES:** 34-442 GPM @ 94% UVT, 41-536 GPM @ 99% UVT // **APPLICATIONS:** Disinfection, Chlorine Destruction, TOC Reduction // **DESIGN CAPABILITIES:** Custom Configurations

**UV Technology**

Aquafine UV systems are engineered to focus the power of UV light, utilizing specially designed Aquafine Colorguard™ lamps, recognized in the industry for unsurpassed performance and reliability.

**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.
# Optima™ Series // High Performance UV Systems

<table>
<thead>
<tr>
<th>Model: Optima™</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>320</th>
<th>400</th>
<th>520</th>
<th>630</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Flow Rate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disinfection ([6/9% UVT]) GPM (m³/HR)*</td>
<td>34 (8)</td>
<td>68 (16)</td>
<td>102 (23)</td>
<td>136 (31)</td>
<td>221 (50)</td>
<td>282 (64)</td>
<td>366 (83)</td>
<td>442 (100)</td>
</tr>
<tr>
<td>Disinfection ([6/9% UVT]) GPM (m³/HR)*</td>
<td>41 (9)</td>
<td>85 (19)</td>
<td>133 (30)</td>
<td>170 (39)</td>
<td>265 (60)</td>
<td>340 (77)</td>
<td>442 (100)</td>
<td>536 (122)</td>
</tr>
<tr>
<td><strong>Number of UV Lamps (HE SE)</strong></td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>12</td>
<td>8 L</td>
<td>10 L</td>
<td>12 L</td>
</tr>
</tbody>
</table>

### Electrical Requirements

| Operating Power (Nominal Watts) | 265 | 480 | 700 | 910 | 1345 | 1300 | 1600 | 1920 |

**Electrical Supply**: 120/240V/50-60Hz, Single Phase, 2 W + GND

**Ballast Type**: HE Electronic

**Controller/Detector**

- UV Temp. & Monitoring System: Optional
- Lamp Status Indicator: Standard
- Lamp Out Alert (LOA)**: Optional
- Running Time Meter: Standard
- Hand/Off/Auto (H/O/A): NA, Optional

### Control Cabinet

- CC System Rating: STD / “U”
- Materials of Const: STD / “U”
- 304 Stainless Steel

### Treatment Chamber

- Materials of Construction: 316L Stainless Steel
- Internal Surface Finish: Ra 32 (Ra 15 Optional)
- Operating Temperature °F (°C)
  - Water: 50° - 100° (10° - 38°)
  - Ambient Air: 35° - 110° (2° - 43°)
- Maximum Operating Pressure PSI (Bar): 150 [10]
- Inlet/Outlet Flange Inches (MM)
  - 1 1/2 (40) 3 (80) 3 (80) 3 (80) 4 (100) 6 (150) 6 (150) 2, 3 or 6 (50, 80 or 150)
- Hot Water Sanitization °F (°C)
  - 170° (77°) Available with S.S. Comp. Nuts Only
- Sanitary Fittings: Optional
- Baffle: NA, Optional (required for chlorine & TOC applications)

### Dimensions - For Reference Only

<table>
<thead>
<tr>
<th>Standard CC &amp; TC Dimensions Inches (MM) LxWxH</th>
<th>39 X 7 X 21 (991 X 178 X 533)</th>
<th>40 X 9 X 23 (1016 X 229 X 584)</th>
<th>44 X 11 X 28 (1118 X 280 X 711)</th>
<th>68 X 11 X 30 (1727 X 280 X 762)</th>
</tr>
</thead>
<tbody>
<tr>
<td>“U” Type CC Dimensions Inches (MM) LxWxH</td>
<td>NA</td>
<td>24 X 11 X 26 (609 X 280 X 660)</td>
<td>40 X 11 X 22 (1016 X 280 X 559)</td>
<td>40 X 11 X 24 (1016 X 280 X 610)</td>
</tr>
<tr>
<td>“U” Type TC Dimensions Inches (MM) LxWxH</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Dose Level: 30 mJ/cm² after 8,000 hours of operation - for disinfection only.