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

Utilized for ozone destruction and disinfection, the Optima HX™ is not only cost effective, but proves to be a reliable, innovative and environmentally smart alternative.

**UV Technology**

Aquafine ultraviolet (UV) systems are engineered to focus the power of UV light, utilizing specially designed Aquafine Colorguard™ UV technology is used throughout the world, in a wide array of applications, as an environmentally responsible way to disinfect and safeguard water against harmful microorganisms.

**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 HX™ SERIES // HIGH PERFORMANCE UV SYSTEMS

**Model: Optima HX**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>02 ADS</th>
<th>02 BDS</th>
<th>02 CDS</th>
<th>02 DDL</th>
<th>02DDS</th>
<th>02CDL</th>
<th>02DLD</th>
<th>04 CDL</th>
<th>04 DDL</th>
<th>06 DDL</th>
<th>08 DDL</th>
<th>08 EDL</th>
<th>08 FDL</th>
<th>08 GDL</th>
<th>10 GDL</th>
<th>12 GDL</th>
<th>12 HDL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAXIMUM FLOW RATE</strong></td>
<td></td>
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</tr>
<tr>
<td>Disinfection (89% UVT) GPM [m³/hr]*</td>
<td>40 (9)</td>
<td>60 (14)</td>
<td>78 (18)</td>
<td>98 (20)</td>
<td>130 (30)</td>
<td>175 (40)</td>
<td>251 (57)</td>
<td>325 (74)</td>
<td>415 (94)</td>
<td>500 (114)</td>
<td>550 (125)</td>
<td>670 (152)</td>
<td>800 (182)</td>
<td>925 (210)</td>
<td>1100 (250)</td>
<td>1300 (290)</td>
<td>1400 (318)</td>
</tr>
<tr>
<td>Disinfection (99% UVT) GPM [m³/hr]†</td>
<td>45 (10)</td>
<td>71 (16)</td>
<td>90 (20)</td>
<td>115 (26)</td>
<td>150 (34)</td>
<td>220 (50)</td>
<td>300 (68)</td>
<td>405 (92)</td>
<td>520 (118)</td>
<td>626 (142)</td>
<td>700 (159)</td>
<td>850 (198)</td>
<td>1070 (243)</td>
<td>1200 (273)</td>
<td>1400 (318)</td>
<td>1800 (500)</td>
<td></td>
</tr>
<tr>
<td><strong>NUMBER OF UV LAMPS (HX SE)</strong></td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>5</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
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</tr>
</tbody>
</table>

**ELECTRICAL REQUIREMENTS**

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

**OPER. POWER (NOMINAL WATTS)**
265 | 360 | 265 | 360 | 670 | 985 | 890 | 985 | 1300 | 1600 | 1920 | | | | | |

**CONTROLLER/DETECTOR**

**UV G400 SERIES**
N/A | OPTION FOR REMOTE [*U*] MODEL ONLY | OPTIONAL

**LAMP TEMP. & MONITORING SYSTEM**
STANDARD |

**LAMP STATUS INDICATOR**
OPTIONAL

**RUNNING TIME METER**
STANDARD |

**HAND/OFF/AUTO [H/O/A]**
NA | OPTIONAL

**4-20mA OUTPUT SIGNAL**
OPTIONAL |

**CONTROL CABINET**

**CC SYSTEM RATING**
C.S - UL TYPE 1, S.S - UL TYPE 3R FOR REMOTE [*U*] ONLY | C.S - UL TYPE 1, S.S - UL TYPE 3R

**MATERIALS OF CONST.**
STD / [*U*] | 304 S.S. / C.S., OPTIONAL 304 S.S. | C.S., OPTIONAL 304 S.S.

**TREATMENT CHAMBER**

**MATERIALS OF CONSTRUCTION**
316L STAINLESS STEEL

**INTERNAL SURFACE FINISH**
Ra 32 (Ra 15 OPTIONAL)

**OPERATING TEMPERATURE °F (°C)**
Water: 40° - 104° (5° - 40°) | Ambient Air: 34° - 104° (1° - 40°)

**MAX. OPER. PRESSURE PSI (BAR)**
150 (10)

**INLET/OUTLET FLANGE INCHES (MM)**
2 (50) | 3 (80) | 4 (100) | 6 (150) | 8 (200) | 10 (250)

**HOT WATER SANIT. °F (°C)**
170° (77°) AVAILABLE WITH S.S. COMP. NUTS & VITON O-RINGS ONLY

**SANITARY FITTINGS**
OPTIONAL

**DIMENSIONS - FOR REFERENCE ONLY**

**OVERALL DIMENSIONS INCHES**

<table>
<thead>
<tr>
<th>Overall Dimension</th>
<th>28.50 X 38.50 X 7</th>
<th>15 X 40 X 12.50</th>
<th>15 X 13.50</th>
<th>21.50 X 15.50</th>
<th>20 X 15</th>
<th>22 X 17</th>
<th>22 X 68 X 10</th>
<th>24 X 68 X 11</th>
<th>27 X 68 X 12</th>
<th>44.50 X 7 X 14.50</th>
<th>44.50 X 67 X 16.50</th>
<th>48.50 X 67 X 18.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHWWO</td>
<td>36 X 1010 X 350</td>
<td>364 X 1012 X 338</td>
<td>364 X 1727 X 300</td>
<td>540 X 1010 X 387</td>
<td>508 X 1727 X 381</td>
<td>559 X 1721 X 254</td>
<td>610 X 1721 X 280</td>
<td>679 X 1721 X 298</td>
<td>1121 X 1702 X 342</td>
<td>1174 X 1702 X 413</td>
<td>1223 X 1702 X 444</td>
<td></td>
</tr>
</tbody>
</table>

**OVERALL DIMENSIONS MM**

| Overall Dimension | 521 X 948 X 176 | 366 X 1010 X 300 | 384 X 1012 X 338 | 364 X 1727 X 300 | 540 X 1010 X 387 | 508 X 1727 X 381 | 559 X 1721 X 254 | 610 X 1721 X 280 | 679 X 1721 X 298 | 1121 X 1702 X 342 | 1174 X 1702 X 413 | 1223 X 1702 X 444 |

* Dose Level: 30 mJ/cm² after 9,000 hours of operation. 
† Introduction Flange inches [mm]: 10 [250] 11 [48] Flange inches [mm]: 12 [300]