triogen® UV Integra range of UV systems are designed for the disinfection of intake, discharge and recirculating effluents at fish farms and on Well Boats. The triogen® UV Integra system eliminates pathogens with a powerful dose of UV light delivered by strategically placed medium pressure UV lamps.

APPLICATIONS
- Aquaculture (Recirculating Aquaculture System - RAS, and Wellboats)
- Salt and fresh water

BENEFITS
- Suitable for land and sea based facilities
- Improves algae control
- Savings in water, energy and chemical consumption
- Low capital and installation costs with minimal service and plant room space required
- Suitable for indoor and outdoor applications
- Highly resistant to corrosion attack

MAIN FEATURES
- Norwegian Veterinary Institute (NVI) Certified equipment
- Automatic energy adjustment from 30-100% of full power
- Polychromatic 8000 hour medium pressure UV lamp system
- Advanced lamp efficiency and automatic flow pacing
- 316L stainless steel electro polished vessel
- Automatic “Smartdrive” wiper system and UV monitor
- Quick release powerhead for easy lamp replacement
- Touchscreen microprocessor control panel
- Data logging, BMS, ethernet and modbus communication ready
- CE certified, manufactured to ISO 9001 : 2015

UV TECHNOLOGY
Medium pressure polychromatic ultraviolet light (UV) is highly effective at inactivating bacteria and viruses and also for oxidising organic species in water. Ultraviolet disinfection consists of a physical, chemical-free process, attacking the vital DNA of the bacteria and micro organisms directly. UV technology has advanced to the point where it can easily enhance the disinfection and oxidation of a wide variety of applications.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Flow Rates at 90% UVT (1)</th>
<th>Flow Rates at 85% UVT (2)</th>
<th>Installed electrical power</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Flange</th>
<th>Control Panel</th>
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<tbody>
<tr>
<td></td>
<td>m³/h</td>
<td>m³/h</td>
<td>kW</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
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<td>up to 933</td>
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<td>895</td>
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<td>1500</td>
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</tr>
</tbody>
</table>

(1) 90 mJ/cm²
(2) 30 mJ/cm²

### QUALITY STANDARDS

- BS EN ISO 9001 : 2015
- CE approval
- NVI approved

### MATERIALS

- Reactor Vessel: 316L electro-polished stainless steel
- Flanges: EN1092 PN10 / ANSI 150RF
- Lamp: high purity quartz
- Thimble: high purity quartz
- Panel: IP54 polyester coated mild steel

### OPTIONS

- Automatic wiper system
- Stainless steel control panel

### REMOTE CONTROLS AND SIGNALS

- Automatic flow pacing (optional)
- SCADA communication capability
- Real-time UV dose display
- inputs: water flow (4-20mA / ethernet), UV transmittance
- outputs: UV intensity, system status, pre-alarm, system fault
- ethernet communications capability
- remote indications: lamp change required, low intensity, remote on, fault, lamps on, detailed alarm code (ethernet only)
- lamp power control: ethernet, auto, manual

### CONTACT

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