triogen® UV SMP offers a compact and high efficiency disinfection system for aquarium, aquaculture and water feature applications. These systems provide advanced lamp and vessel efficiency with a range of options including energy saving features, for disinfection and improved water quality.

APPLICATIONS
- Aquariums
- Aquaculture
- Water features

BENEFITS
- Safely control background levels of general bacteria
- Significant improvement in water clarity and air quality
- Simple control logic / easy to operate
- Helps to inhibit the growth of algae
- Savings in water, energy and chemical consumption
- Low capital and installation costs, with minimal service and plant room space required
- Low service requirements

MAIN FEATURES
- Polychromatic 8,000 hour medium pressure UV lamp system
- Auto dose pacing options
- 316L stainless steel electro-polished vessel
- Vessel and wetted parts available in titanium
- Automatic “Smartdrive” wiper system and UV monitor
- Digital membrane LCD microprocessor control
- Advanced lamp efficiency and low power setting function
- Data logging, BMS, Ethernet and Modbus communication ready
- Manual and remote operation and status
- CE certified, manufactured to ISO 9001 : 2015
- Models available with reduced feature options

UV TECHNOLOGY
- Medium pressure polychromatic ultraviolet light (UV) is a highly effective means to inactivate bacteria and viruses, and will oxidise organic species in water.
- UV disinfection consists of a physical, chemical free process, directly attacking the vital DNA of bacteria, micro organisms and parasites.
- UV is widely considered as the main method of disinfection in aquariums and fish farms.
- UV technology will easily enhance the disinfection and oxidation of all types of pools and water features.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Flow Rate 90% UVT 40mJ/cm²</th>
<th>Flow Rate 90% UVT 200mJ/cm²</th>
<th>Connection flanges</th>
<th>Operation &amp; Maintenance Area</th>
<th>Lamp Removal</th>
<th>Wiper Stroke</th>
<th>Control Panel Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMP-100-75-1/1.5kW</td>
<td>20.6</td>
<td>4.1</td>
<td>DN65</td>
<td>2795 x 175 x 225</td>
<td>900</td>
<td>830</td>
<td>600 x 200 x 800</td>
</tr>
<tr>
<td>SMP-150-100-1/1.5kW</td>
<td>35</td>
<td>7.2</td>
<td>DN100</td>
<td>2795 x 175 x 225</td>
<td>900</td>
<td>830</td>
<td>600 x 200 x 800</td>
</tr>
<tr>
<td>SMP-150-100-1/3kW</td>
<td>69</td>
<td>14</td>
<td>DN100</td>
<td>3080 x 300 x 300</td>
<td>900</td>
<td>830</td>
<td>800 x 500 x 1400</td>
</tr>
<tr>
<td>SMP-250-150-1/3kW</td>
<td>107</td>
<td>22</td>
<td>DN150</td>
<td>4150 x 400 x 375</td>
<td>1250</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>SMP-200-150-2/3kW</td>
<td>160</td>
<td>32</td>
<td>DN150</td>
<td>3080 x 350 x 325</td>
<td>900</td>
<td>830</td>
<td></td>
</tr>
<tr>
<td>SMP-250-200-1/6kW</td>
<td>214</td>
<td>43</td>
<td>DN200</td>
<td>4150 x 400 x 375</td>
<td>1250</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>SMP-250-200-3/6kW</td>
<td>286</td>
<td>57</td>
<td>DN200</td>
<td>4150 x 400 x 375</td>
<td>1250</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>SMP-300-250-2/6kW</td>
<td>430</td>
<td>86</td>
<td>DN250</td>
<td>4150 x 500 x 450</td>
<td>1250</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>SMP-400-350-3/6kW</td>
<td>748</td>
<td>149</td>
<td>DN350</td>
<td>4150 x 550 x 550</td>
<td>1250</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>SMP-350-200-6/6kW</td>
<td>-</td>
<td>277</td>
<td>DN200</td>
<td>4150 x 500 x 525</td>
<td>1250</td>
<td>1200</td>
<td>800 x 800 x 2000</td>
</tr>
</tbody>
</table>

### MATERIALS
- Vessel: 316L stainless steel, rated to 10 Bar(g)
- Flanges: BS EN1092 PN10 / ANSI 150
- Lamp: high purity quartz
- Thimble: high purity quartz
- Panel: Polyester coated mild steel, IP54 protection

### OPTIONS
- Titanium wetted metal parts
- Manual wiper / no wiper
- Power step regulation
- Stainless steel control panel
- Triclamp inlet/outlet connections
- Welded reactor surfaces (0.35µm) & electro polished
- 316L stainless steel ancillaries
- Additional cable (5m standard)
- UV sensor deletion

### CONTROLS AND SIGNALS
- BMS connectivity with data logging
- Local and remote:
  - UV Lamp on/off or fault
  - UV intensity in W/m², mJ/cm² or requires a 4-20 mA signal from a water flowrate measuring device (not supplied)
  - Reactor / panel high temperature, MCB1 (RCD) Trip / Wiper motor MCB trip
  - Remote control on/off
  - Low power on, Lamp change Required
- Local:
  - Manual wipe / Auto wipe, Lamp hours
  - Languages options
  - Spare Parts guidance / service kits

### CONTACT
Triogen Limited
Unit 14 Langlands Place, East Kilbride G75 0YF
Scotland, United Kingdom
Tel: +44 (0) 1355 220 598
Fax: +44 (0) 1355 570 058
www.triogen.com
info@triogen.com

© 2020 • Subject to change without notice • www.triogen.com triogen_BIO-UV_UV_SMP_EN_V1