BACTERIA DESTROYED BY RADIATION:
UV DISINFECTION SYSTEMS FROM PROMINENT.

UV PROTECTION

Environmentally friendly disinfection: no chemicals, no waste, no harmful by-products, no danger - just pure water.

Safe means safe: Thanks to microprocessor control, systems operate independently. They are simple to use and provide continuous information on the operating state.

Economy is a major advantage of this system: low energy costs, long operating life and low maintenance costs result in an excellent cost-of-ownership ratio.

Optimum solutions for any application: from waste water to ultra-pure water; from low volume domestic use to as high as 400 m³/h for public drinking water supplies.
the costs of lamp replacement are consequently also reduced.

**Graphical display with UVC capacity trend indicator**
The display shows a linear representation of the sensor signal over a preset time and provides information about the number of operating hours, on/off switch cycles and calibrations.

**High level of operating safety ensured by appropriate valve action**
The system, after being switched on, waits until the sensor signal has exceeded the safety threshold. The flushing valve then opens for initial flushing. The stop valve in the main water pipe then opens and the UV system goes into normal operating mode. The system can be programmed to carry out intermittent flushing if it is inactive for long periods. If the sensor signal drops, the control

- **UVC light sensor eliminates disinfection risks**
  - when raw water is contaminated with suspended solids
  - when deposits have built up on the lamp protection tube
  - when the lamp output has been diminished by age.

- **High flux lamps reduce costs**
  (High performance lamps with up to 230 watts)
  As a result of compact construction, investment costs are reduced, fewer lamps are required and the costs of lamp replacement are consequently also reduced.

- **High quality stainless steel radiation chambers (DIN 1.4571 resp. ANSI 312 Ti)**
The optimised hydraulic system ensures an even exposure to radiation of the entire water flow. This guarantees excellent disinfection results.

*Flushing and stop valves are not included as standard.*

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Dulcodes UV systems: modern technology for safe disinfection

1. Ballast with BUS
2. UVC light sensor
3. Radiation chamber
4. Graphical display with UVC capacity trend indicator
5. Stop valve
6. Flushing valve
A central application area of the ProMinent® UV disinfection system is in public drinking water supplies. The chemical composition of water treated for drinking water use is completely unaffected by applying the most up-to-date UV technology. The dreaded legionella bacteria stand no chance when faced with the “UV storm”. Many branches of industry – e.g. within the “high quality water” with no salt or bacterial content. With a ProMinent® reverse osmosis system installed upstream for salt-removal, the UV disinfection system can safely meet these demanding standards.

Other interesting applications include the disinfection of process water from air conditioning systems and the treatment of grey and rainwater.

SAFE AREA

fected by UV disinfection and so there is no significant change to the taste or smell. Even direct disinfection of hot water is made possible by applying the latest UV technology. The general requirement is for exacting standards. At the “other end of the scale”, in wastewater treatment, UV light makes a valuable contribution to the environment.

<table>
<thead>
<tr>
<th>Dulcodes type</th>
<th>Lamp power (W)</th>
<th>Connection power (W)</th>
<th>Length of radiation chamber (mm)</th>
<th>Minimum space for lamp replacement (mm)</th>
<th>Diameter (mm)</th>
<th>Shipping weight/operating weight (approx. kg)</th>
<th>Connector width</th>
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<tbody>
<tr>
<td>16P/11/3/4”</td>
<td>16</td>
<td>30</td>
<td>382</td>
<td>350</td>
<td>114</td>
<td>6/10 G 1/4”</td>
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<tr>
<td>45P/11/3/4”</td>
<td>45</td>
<td>60</td>
<td>940</td>
<td>900</td>
<td>114</td>
<td>10/20 G 1/4”</td>
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</tr>
<tr>
<td>80W/11/3/4”</td>
<td>80</td>
<td>100</td>
<td>630</td>
<td>600</td>
<td>114</td>
<td>8/14 G 1/4”</td>
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<td>130</td>
<td>150</td>
<td>940</td>
<td>900</td>
<td>114</td>
<td>10/20 G 2”</td>
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<td>1486</td>
<td>1400</td>
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<td>750</td>
<td>1665</td>
<td>1500</td>
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<td>53/138 DN 150</td>
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<td>1000</td>
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<td>1600</td>
<td>324</td>
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<tr>
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<td>1200</td>
<td>1690</td>
<td>1600</td>
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<tr>
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<td>2000</td>
<td>1920</td>
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<td>12*230W/40/DN 250</td>
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<td>2100</td>
<td>1920</td>
<td>1600</td>
<td>406</td>
<td>130/320 DN 250</td>
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The UV disinfection system from ProMinent is a “shining example” of the fact that fluid disinfection need not necessarily be very costly. Flow-optimised UV lamps, contained in compact stainless steel chambers, provide sufficient UV-C radiation to safely disinfect all the fluid flowing through the system. The user-friendly operating interface monitors the whole process via a high quality UV-C sensor. Immediate disinfection results mean that there is no need for a reaction tank. The UV system can be integrated anywhere within larger water treatment systems, giving greater freedom in the installation process.

**SAFETY FACTOR**

1. Inlet area
2. Radiation area
3. Perforated plate for creating turbulence
4. Outlet area
SAFE CONDUCT

Opting for a UV disinfection system means opting for our comprehensive UV expertise. Because the “inner life” of our UV disinfection systems, with the latest electronic technology, is highly complex - operating and maintenance is especially simple. Should any questions arise, our experts are ready to help at every stage from the initial design to day-to-day servicing. If ever things aren’t working as they should, we are able to supply you with replacement parts in a very short time. Water treatment can proceed as normal and you can discount fears of health risk. A maintenance contract ensures that your system will always operate in safety. You can rely on ProMinent, our service and the UV disinfection system. We’ll give you our word in writing on that.

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