UV-DISINFECTION WITH DVGW-CERTIFIED SAFETY
DULCODES Z

Verified by certified performance data, Dulcodes Z UV systems fulfil the maximum requirements of disinfection safety. Every system is subjected to biodosimetric testing in accordance with DVGW\textsuperscript{*} worksheet W 294, the world's leading regulatory document for the testing of UV-disinfection systems for drinking water. The new Opti-Flux lamps offer optimum value-for-money thanks to unequalled high performance and service life. Up to 300 W/lamps and 14,000 service hours offer higher performance with fewer lamps and fewer services.

Dulcodes Z UV systems are used for the radiation of drinking water and industrial water and can be used in flow rates of up to 225 m\textsuperscript{3}/h depending on the model and the water transmission values.

\textsuperscript{*}DVGW: German registered association for gas and water

<table>
<thead>
<tr>
<th>Dulcodes Type</th>
<th>max. flow (98 % cm transmission, 400 J/m\textsuperscript{3})</th>
<th>Lamp output</th>
<th>Nominal connection width</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(m\textsuperscript{3}/h)</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>1x75Z</td>
<td>4.5</td>
<td>1 x 75</td>
<td>Rp 1 1/4\textsuperscript{\textdegree}</td>
</tr>
<tr>
<td>1x200Z</td>
<td>10</td>
<td>1 x 200</td>
<td>DN 50</td>
</tr>
<tr>
<td>1x300Z</td>
<td>20</td>
<td>1 x 300</td>
<td>DN 80</td>
</tr>
<tr>
<td>2x300Z</td>
<td>60</td>
<td>2 x 300</td>
<td>DN 100</td>
</tr>
<tr>
<td>3x300Z</td>
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<td>DN 150</td>
</tr>
<tr>
<td>4x300Z</td>
<td>165</td>
<td>4 x 300</td>
<td>DN 150</td>
</tr>
<tr>
<td>5x300Z</td>
<td>230</td>
<td>5 x 300</td>
<td>DN 200</td>
</tr>
</tbody>
</table>
DVGW-certified performance

- Biodosimetric validation complies with the latest issue (Dec. 2003) of the DVGW worksheet W 294.
  Benefit to you: certified according to the state of the art

- Broad spectrum of permitted flows thanks to certified characteristics.
  Benefit to you: optimum adaptation of the systems to different water values

The latest system technology design

- Radiation chambers made of highly polished stainless steel.
  Benefit to you: can be used for even the most demanding applications

- Biodosimetric output demonstrated without installation constraints.
  Benefit to you: compact installation dimensions

- System controller with electronic ballasts in steel control cabinet.
  Benefit to you: numerous special functions, simple connection to central control system

- Individual lamp monitoring via ultra-modern bus technology.
  Benefit to you: rapid fault analysis

Hightec Opti-Flux lamps with unsurpassed performance data

- Up to 300 W lamp output enables more flow per lamp.
  Benefit to you: more power from fewer lamps

- 14,000 hours service life set new standards in UV technology.
  Benefit to you: longer service intervals, lower operating costs

Maintenance costs over the first 5 years in % of the acquisition value

Conventional UV system, 4 lamps x 170 W for 62 m³/h (97 %/cm transmission)

Dulcodes Z, 2 opti-flux lamps x 300 W for 60 m³/h (98 %/cm transmission)