



HEADWORKS BIOLOGY SEPARATION MEMBRANE ▶ <b>DISINFECTION</b> BIOSOLIDS SYSTEMS	<b>UV DISINFECTION</b>	<b>LOW PRESSURE HIGH OUTPUT</b>	<b>WASTE WATER</b>	<b>REUSE</b>	▶ Applications <ul style="list-style-type: none"> <li>- Wastewater Disinfection</li> <li>- Wastewater Reuse</li> <li>- Grey Water</li> <li>- Camp Grounds</li> <li>- Hotels, Hospitals</li> <li>- Restaurants</li> <li>- Marine</li> </ul>
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▶ Main characteristics <ul style="list-style-type: none"> <li>- Low Pressure High Output Amalgam Lamps</li> <li>- "L" design reactor (in-line water inlet)</li> <li>- Calibrated UV sensor</li> <li>- Simple control logic</li> <li>- Temperature sensor</li> </ul>
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Aquaray® SLP-WW UV Systems offer compact and high efficiency disinfection for small and medium wastewater plants with flow rates from 10 to 140 m<sup>3</sup>/h with exceptional reliability and ease of operation.

## MAIN FEATURES

→ High efficiency reactor with in-line water inlet → Exceptional lamp life of 16,000 h → User friendly operator interface microprocessor controlled	→ Easy to install in new or existing water plants → Automatic wiper system → Horizontal or vertical reactor mounting → Flow pacing and other control features
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## UV TECHNOLOGY: SLP-WW

Aquaray® SLP-WW UV systems provide reliable protection against biological contaminants commonly found in wastewater. The germicidal effect of the UV light inactivates most micro-organisms such as bacteria, viruses and parasites to allow safe discharge or reuse. The UV dose (UV Intensity x contact time) defines the treatment

efficiency which is provided by the unit. The effective dose applied depends on the UV transmittance of water to be treated as well as the proper hydraulic design of the unit. All the Aquaray® SLP-WW units are CFD modeled to ensure accurate flow distribution and minimize head loss.

## HOW IT WORKS

The low pressure amalgam lamps are powered by electronic ballasts. The lamps are inserted in pure quartz sleeves isolating them from the water. The lamps can be easily changed when necessary. The micro-processor control unit indicates lamp operating hours and notifies the operator when the usable life (16,000 hours) is reached.

A UV sensor is installed to monitor UV intensity. The periodic maintenance of the system has been made very easy by allowing the removal of the full lamp assembly. The reactor is fitted with an automatic wiper system for cleaning the UV lamp quartz sleeves.

