



HEADWORKS BIOLOGY SEPARATION MEMBRANE ▶ DISINFECTION BIOSOLIDS SYSTEMS				
UV DISINFECTION	LOW PRESSURE HIGH OUTPUT	DRINKING WATER	PROCESS WATER	



- ▶ Applications
- Drinking water
 - Process water
 - Aquaculture
 - Deozoneation
 - TOC Reduction
 - Ballast water
 - Cooling tower
 - Advanced oxidation

- ▶ Main characteristics
- Low Pressure High Output Amalgam Lamp
 - "L" design reactor (in-line water inlet)
 - Calibrated UV sensor
 - Temperature sensor: reactor and panel
 - Simple control logic

The Aquaray® SLP-DW (Drinking Water) and SLP-PW (Process Water) UV systems offer compact and high efficiency disinfection for small and medium application with a range of flowrates from 25 to 600 m³/h with exceptional reliability and ease of operation.

MAIN FEATURES

- High efficiency reactor with in-line water inlet
- Designed under DVGW Standard
- 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 (optional)
- Reactor mounting horizontal or vertical

UV TECHNOLOGY: SLP

The Aquaray® SLP units have been designed to disinfect potable or process water. The germicidal effect of the UV light inactivates most micro-organisms such as bacteria, viruses and parasites. UV is known to be particularly efficient to inactivate *Cryptosporidium Parvum* and *Giardia Lamblia*.

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.

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 h) is reached.

A UV sensor is installed to monitor UV radiation. The periodic maintenance of the system has been made very easy by allowing the removal of the full lamp assembly.

