



HEADWORKS BIOLOGY SEPARATION MEMBRANE ▶ DISINFECTION BIOSOLIDS SYSTEMS	UV DISINFECTION	MEDIUM PRESSURE	DRINKING WATER	PROCESS WATER	▶ Applications
					<ul style="list-style-type: none"> - Drinking water - Process water - Aquaculture - Deozonation - TOC Reduction - Ballast water - Cooling tower - Advanced oxidation
					▶ Main characteristics

The Aquaray® SMP-DW/PW range offers compact and high efficiency system for small and medium water plant with a range of flow rates from 22 to 440 m³/h with exceptional reliability and ease of operation.

MAIN FEATURES

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| <ul style="list-style-type: none"> → Polychromatic medium pressure lamps for highest germicidal efficiency → Fewer lamps → Easy to install in new or existing water plants | <ul style="list-style-type: none"> → User friendly operator interface microprocessor controlled → Data logging for up to one year |
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UV TECHNOLOGY: SMP-DW/PW

The Aquaray® SMP-DW/PW 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 medium pressure lamps have an action on nucleic acid and proteins for micro-organisms inactivation. 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 medium pressure lamps are powered by magnetic ballasts. The lamps are inserted in pure quartz sleeves isolating them from the water. The lamps can be easily changed when indicated by the micro-processor control unit.

A UV sensor is installed to monitor UV radiation. An optimal wiper system is available for cleaning the UV lamp quartz sleeves.

