OZONIA

Aquaray® SLP-WW

UV Systems

- HEADWORKS
- BIOLOGY
- SEPARATION
- MEMBRANE
- ▶ DISINFECTION
- BIOSOLIDS
- SYSTEMS






UV DISINFECTION | LOW PRESSURE HIGH OUTPUT | WASTE WATER | REUSE

▸ Applications

- Wastewater Disinfection
- Wastewater Reuse
- Grey Water
- Camp Grounds
- Hotels, Hospitals
- Restaurants
- Marine

▸ Main characteristics

- Low Pressure High Output Amalgam Lamps
- "L" design reactor (in-line water inlet)
- Calibrated UV sensor
- Simple control logic
- Temperature sensor

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^3/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

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.

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TECHNICAL DATA

Aquaray® SLP-WW Model	Flow Rate (1)	Lamp Power
	m^3/h	W
SLP 150-50-1	10	200
SLP 200-75-2	19	400
SLP 200-75-3	29	600
SLP 250-100-4	38	800
SLP 250-150-6	58	1200
SLP 300-150-8	78	1600
SLP 350-150-10	93	2000
SLP 350-150-12	115	2400
SLP 400-200-14	140	2800

(1) Based on 35 mJ/cm^2 UV dose at 65% UV transmittance

▸ Standards

- **Flanges:** BS, ANSI
- **Reactor Pressure Rating:** 10 barg
- **Main Power Supply:** 220-240V/1ph/50-60 Hz
- **Panel Rating:** IP54

▸ Remote controls and alarms

- **Digital Inputs:** lamp start-stop, water flow interlock
- **Digital Outputs:** system status, pre-alarm, alarm
- **Analog Output:** remote indication of UV intensity

▸ Materials

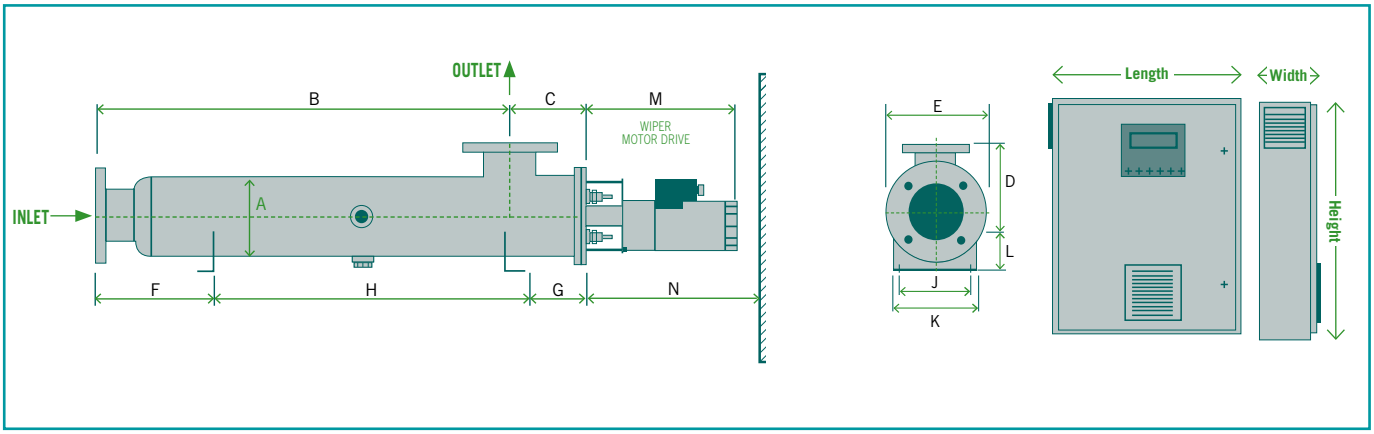
- **Reactor Material:** 316L stainless steel/quartz sleeve/ silicon O-ring
- **Panel Material:** mild steel polyester powder coated

▸ Options

- **Stainless steel panel**

DIMENSIONS

Aquaray® SLP-WW Model	Reactor Dimensions (mm)													In-Out	Panel: l x h x w
	A	B	C	D	E	F	G	H	J	K	L	M	N	inch	mm
SLP 150-50-1	150	1250	150	150	225	230	185	1000	120	150	125	300	1375	2	400 x 600 x 200
SLP 200-75-2	200	1250	150	175	275	230	185	1000	170	200	150	300	1375	3	400 x 600 x 200
SLP 200-75-3	200	1250	150	175	275	230	185	1000	170	200	150	300	1375	3	600 x 600 x 200
SLP 250-100-4	250	1350	150	200	325	330	185	1000	220	250	175	300	1375	4	600 x 600 x 200
SLP 250-150-6	250	1350	150	200	325	330	185	1000	220	250	175	300	1375	6	600 x 600 x 200
SLP 300-150-8	300	1330	170	250	375	330	185	1000	270	300	200	300	1375	6	800 x 800 x 200
SLP 350-150-10	300	1330	170	250	375	330	185	1000	270	300	200	300	1375	6	800 x 800 x 200
SLP 350-150-12	350	1300	200	300	475	330	185	1000	320	350	250	300	1375	6	800 x 800 x 200
SLP 400-200-14	400	1300	200	300	475	330	185	1000	370	400	250	300	1375	8	800 x 800 x 200



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