

AQUARAY® SLP-WW

UV Systems



Aquaray® SLP-WW UV Systems offer compact and high-efficiency disinfection for small and medium wastewater plants with flow rates from 10 to 200m³/h with exceptional reliability and ease of operation.

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

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 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.

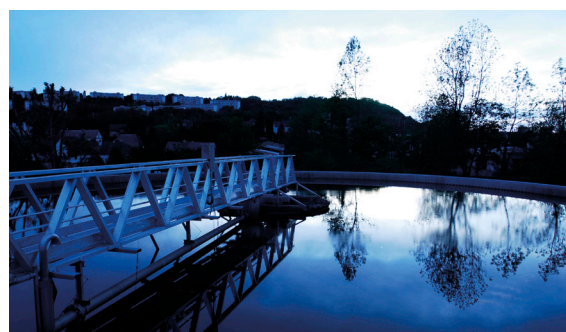
The UV dose (UV Intensity x contact time) defines the treatment efficiency which is provided by the unit. The effective dose applied depends on the UV transmittance of water to be treated as well as the proper hydraulic design of the unit. All the Aquaray® SLP-WW units are CFD modeled to ensure accurate 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.



PRODUCT HIGHLIGHTS

- > Exceptional Lamp life of 16 000 h
- > User friendly operator interface
- > Automatic wiper system

OZONIA

TECHNICAL DATA SLP MODEL	Flow Rate ⁽¹⁾ (m ³ /h)	Total Lamp Power (W)	Reactor (mm)													In-Out	Control Panel: L x H x W (mm)
			A	B	C	D	E	F	G	H	J	K	L	M	N		
SLP 150-50-1 W	10	200	150	1250	150	150	225	230	185	1000	120	150	125	300	1375	DN 50	400 x 600 x 200
SLP 200-75-2 W	19	400	200	1250	150	175	275	230	185	1000	170	200	150	300	1375	DN 80	400 x 600 x 200
SLP 200-75-3 W	29	600	200	1250	150	175	275	230	185	1000	170	200	150	300	1375	DN 80	600 x 600 x 200
SLP 250-100-4 W	38	800	250	1350	150	200	325	330	185	1000	220	250	175	300	1375	DN 100	600 x 600 x 200
SLP 250-150-6 W	58	1200	250	1350	150	200	325	330	185	1000	220	250	175	300	1375	DN 150	600 x 600 x 200
SLP 300-150-8 W	78	1600	300	1330	170	250	375	330	185	1000	270	300	200	300	1375	DN 150	800 x 800 x 200
SLP 350-150-10 W	93	2000	300	1330	170	250	375	330	185	1000	270	300	200	300	1375	DN 150	800 x 800 x 200
SLP 350-150-12 W	115	2400	350	1300	200	300	475	330	185	1000	320	350	250	300	1375	DN 150	800 x 800 x 200
SLP 400-200-14 W	140	2800	400	1300	200	300	475	330	185	1000	370	400	250	300	1375	DN 200	800 x 800 x 200
SLP 500-200-20 W	200	4000	500	1750	250	375	650	450	170	1400	250	300	325	300	1600	DN 200	1000 x 800 x 200

Size connection flanges confirmed with proposal

(1) Based on 35 mJ/cm² UV dose at 65% UV transmittance

W = Wiper

TECHNICAL FEATURES

- Flanges: BS 4504 (PN10), or ANSI 150
- Reactor Pressure Rating: 10 barg
- Main Power Supply: 220-240V/1ph/50-60 Hz
- Panel Rating: IP54
- Conformity: CE

MATERIALS

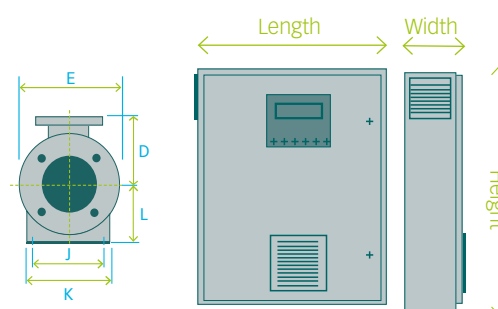
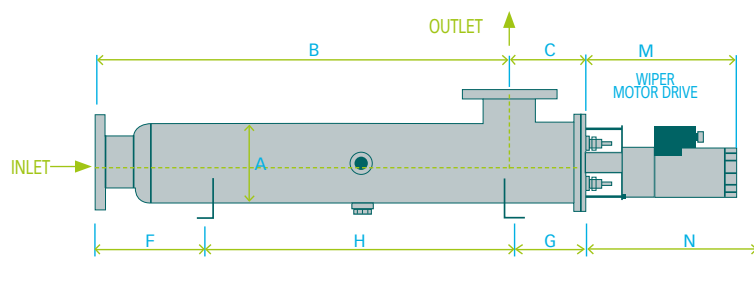
- Reactor Material: 316L stainless steel/quartz sleeve/silicon O-ring
- Panel Material: mild steel polyester powder coated

OPTIONS

- Stainless steel panel
- Vertical mounting

REMOTE CONTROL AND ALARMS

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



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