

AQUARAY® SLP-WW

UV Systems



Aquaray® SLP-WW UV Systems offer compact and efficient disinfection performance for small to medium size wastewater plants with flow rates up to 800 gpm.

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
- Temperature sensor

MAIN FEATURES

- High efficiency reactor with in-line water inlet
- Exceptional lamp life of 16 000 h
- User friendly operator interface
- 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 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) has been reached. A UV sensor is installed to monitor UV intensity.

The periodic maintenance of the system has been made easy by allowing the removal of the entire lamp assembly.

The reactor is fitted with an automatic wiper system for cleaning quartz sleeves.



PRODUCT HIGHLIGHTS

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



TECHNICAL DATA SLP MODEL	Flow Rate ⁽¹⁾ (gpm)	Total Lamp Power (W)	Reactor (in.)													In-Out	Control Panel: W x H x D (in.)
			A	B	C	D	E	F	G	H	J	K	L	M	N		
SLP 150-50-1 W	44	200	5.9	49.2	5.9	5.9	8.9	9.1	7.3	39.4	4.7	5.9	4.9	11.8	54.1	DN 50	15.7 x 23.6 x 7.9
SLP 200-75-2 W	83	400	7.9	49.2	5.9	6.9	10.8	9.1	7.3	39.4	6.7	7.9	5.9	11.8	54.1	DN 80	15.7 x 23.6 x 7.9
SLP 200-75-3 W	127	600	7.9	49.2	5.9	6.9	10.8	9.1	7.3	39.4	6.7	7.9	5.9	11.8	54.1	DN 80	23.6 x 23.6 x 7.9
SLP 250-100-4 W	167	800	9.8	53.1	5.9	7.9	12.8	13.0	7.3	39.4	8.7	9.8	6.9	11.8	54.1	DN 100	23.6 x 23.6 x 7.9
SLP 250-150-6 W	255	1200	9.8	53.1	5.9	7.9	12.8	13.0	7.3	39.4	8.7	9.8	6.9	11.8	54.1	DN 150	23.6 x 23.6 x 7.9
SLP 300-150-8 W	343	1600	11.8	52.4	6.7	9.8	14.8	13.0	7.3	39.4	10.6	11.8	7.9	11.8	54.1	DN 150	31.5 x 31.5 x 7.9
SLP 350-150-10 W	410	2000	11.8	52.4	6.7	9.8	14.8	13.0	7.3	39.4	10.6	11.8	7.9	11.8	54.1	DN 150	31.5 x 31.5 x 7.9
SLP 350-150-12 W	505	2400	13.8	51.2	7.9	11.8	18.7	13.0	7.3	39.4	12.6	13.8	9.8	11.8	54.1	DN 150	31.5 x 31.5 x 7.9
SLP 400-200-14 W	615	2800	15.7	51.2	7.9	11.8	18.7	13.0	7.3	39.4	14.6	15.7	9.8	11.8	54.1	DN 200	31.5 x 31.5 x 7.9
SLP 500-200-20 W	880	4000	19.7	68.9	9.8	14.8	25.6	17.7	6.7	55.1	9.8	11.8	12.8	11.8	63.0	DN 200	39.4 x 31.5 x 7.9

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 and UL

MATERIALS

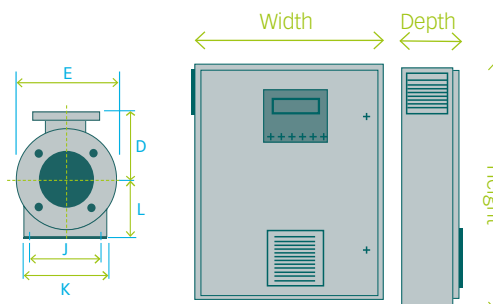
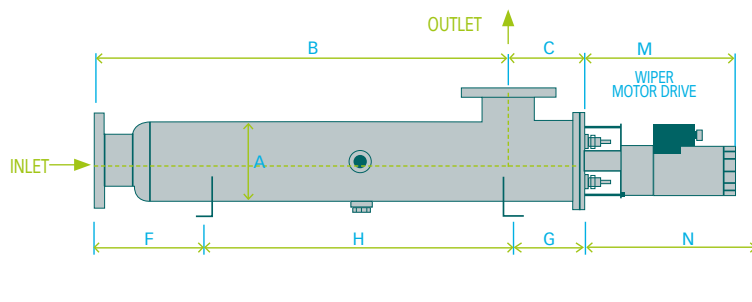
- Reactor Material: 316L stainless steel/quartz sleeve/silicon O-ring
- Panel Material: mild steel polyester powder coated

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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