

AQUARAY® SLP-DW/PW

UV Systems



The Aquaray® SLP-DW (Drinking Water) and SLP-PW (Process Water) UV systems offer efficient and reliable disinfection performance for small to medium flow applications.

APPLICATIONS

- Drinking water
- Process water
- Aquaculture
- Deozonation
- TOC Reduction
- Ballast water
- Cooling water
- 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

MAIN FEATURES

- High efficiency reactor with in-line water inlet
- DVGW Approved
- Exceptional lamp life of 16 000 hours
- User friendly operator interface
- Easy to install in new or existing plants
- Automatic wiper system (optional)

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.

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 quartz sleeves isolating them from the water. The lamps can be easily changed when necessary. The micro-processor or PLC control unit indicates lamp operating hours and notifies the operator when the usable life (16 000 h) has been reached.

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



PRODUCT HIGHLIGHTS

- > DVGW validated
- > User friendly operator interface
- > Exceptional lamp life of 16 000 hours
- > Automatic wiper system (optional)
- > UL certified

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 150-75-1	110	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 80	15.7 x 23.6 x 7.9
SLP 250-100-2	264	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 100	15.7 x 23.6 x 7.9
SLP 200-100-3	396	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 100	23.6 x 23.6 x 7.9
SLP 250-150-4	616	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 150	23.6 x 23.6 x 7.9
SLP 250-200-6	890	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 200	23.6 x 23.6 x 7.9
SLP 300-200-8	1276	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 200	31.5 x 31.5 x 7.9
SLP 350-250-10	1673	2000	13.8	51.2	7.9	11.8	16.7	13.0	7.3	39.4	12.6	13.8	9.8	11.8	54.1	DN 250	31.5 x 31.5 x 7.9
SLP 350-300-12	2025	2400	13.8	51.2	7.9	11.8	16.7	13.0	7.3	39.4	12.6	13.8	9.8	11.8	54.1	DN 300	31.5 x 31.5 x 7.9
SLP 400-300-14	2641	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 300	31.5 x 31.5 x 7.9
SLP 600-350-20	4138	4000	23.6	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 400	39.4 x 31.5 x 7.9

Size connection flanges confirmed with proposal

(1) Based on 40 mJ/cm² UV dose at 95% UV transmittance

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

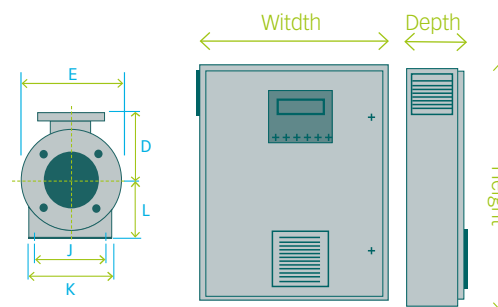
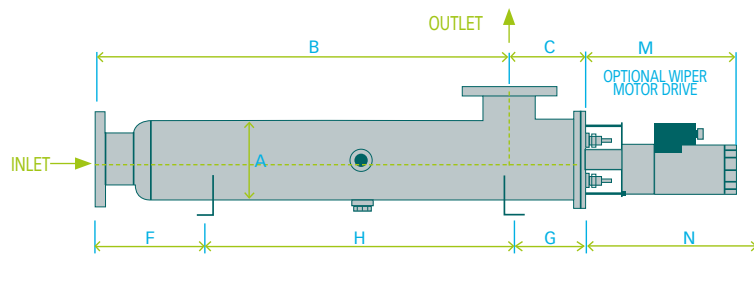
- Reactor Material: 316L stainless steel/quartz sleeve/silicon O-ring
- Panel Material: mild steel polyester powder coated

OPTIONS

- Automatic wiper
- 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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