AQUARAY® SLP-DW/PW

UV Systems

UV

The Aquaray® SLP-DW (Drinking Water) and SLP-PW (Process Water) UV systems offer compact and high efficiency disinfection for small and medium application with a range of flowrates from 25 to 940m³/h with exceptional reliability and ease of operation.

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**
- **Simple control logic**

MAIN FEATURES

- High efficiency reactor with in-line water inlet
- Designed under DVGW Standard
- 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 (optional)
- Reactor mounting horizontal

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 parasits. UV is known to be particularly efficient to inactivate *Cryptosporidium Parvum and Giardia Lamblia*.

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 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 h) is reached.

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

PRODUCT HIGHLIGHTS

> Designed under DVGW standards

> User friendly operator interface

> Exceptional lamp life of 16 000 h

> Automatic wiper system (optional)

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UV

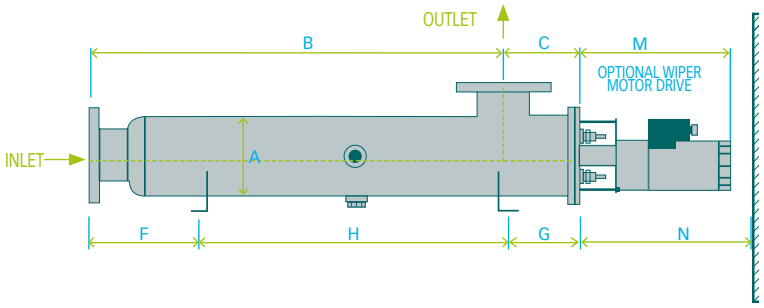
TECHNICAL DATA SLP MODEL	Flow Rate (1) (m^3/h)	Total Lamp Power (W)	Reactor (mm)													In-Out	Control Panel: L x H x W (mm)
			A	B	C	D	E	F	G	H	J	K	L	M	N		
SLP 150-75-1	25	200	150	1250	150	150	225	230	185	1000	120	150	125	300	1375	DN 80	400 x 600 x 200
SLP 250-100-2	60	400	200	1250	150	175	275	230	185	1000	170	200	150	300	1375	DN 100	400 x 600 x 200
SLP 200-100-3	90	600	200	1250	150	175	275	230	185	1000	170	200	150	300	1375	DN 100	600 x 600 x 200
SLP 250-150-4	140	800	250	1350	150	200	325	330	185	1000	220	250	175	300	1375	DN 150	600 x 600 x 200
SLP 250-200-6	200	1200	250	1350	150	200	325	330	185	1000	220	250	175	300	1375	DN 200	600 x 600 x 200
SLP 300-200-8	290	1600	300	1330	170	250	375	330	185	1000	270	300	200	300	1375	DN 200	800 x 800 x 200
SLP 350-250-10	380	2000	350	1300	200	300	425	330	185	1000	320	350	250	300	1375	DN 250	800 x 800 x 200
SLP 350-300-12	460	2400	350	1300	200	300	425	330	185	1000	320	350	250	300	1375	DN 300	800 x 800 x 200
SLP 400-300-14	600	2800	400	1300	200	300	475	330	185	1000	370	400	250	300	1375	DN 300	800 x 800 x 200
SLP 600-350-20	940	4000	600	1750	250	375	650	450	170	1400	250	300	325	300	1600	DN 400	1000 x 800 x 200

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

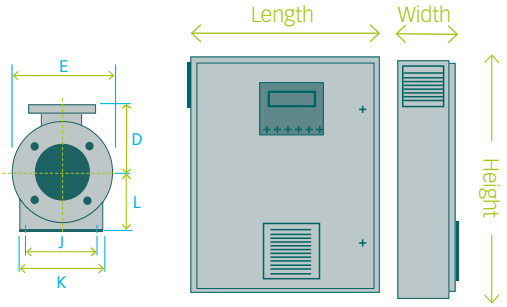


MATERIALS

- 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

CONTACT

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