OZONIA

AQUARAY® SLP-DW/PW

UV Systems

UV DISINFECTION | LOW PRESSURE HIGH OUTPUT | DRINKING WATER | PROCESS WATER

← Applications

- Drinking water
- Process water
- Aquaculture
- Deozonation
- TOC Reduction
- Ballast water
- Cooling tower
- Advanced oxidation

← Main characteristics

- Low Pressure High Output Amalgam Lamp
- "L" design reactor (in-line water inlet)
- Calibrated UV sensor
- Temprature sensor: reactor and panel
- Simple control logic

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 115 to 2645 gpm with exceptional reliability and ease of operation.

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 or vertical

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 notifisies 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.

suez environnement | Degrémont

TECHNICAL DATA

Aquaray® SLP Model	Flow Rate (1)	Total Lamp Power
	gpm	W
SLP 150-75-1	115	200
SLP 200-100-2	265	400
SLP 200-150-3	395	600
SLP 250-150-4	615	800
SLP 250-200-6	880	1200
SLP 300-200-8	1280	1600
SLP 350-250-10	1675	2000
SLP 350-250-12	2025	2400
SLP 400-300-14	2645	2800

(1) Based on 40 mJ/cm^2 UV dose at 95% UV transmittance

Standards

- **Flanges:** BS, ANSI
- **Reactor Pressure Rating:** 145 psi
- **Main Power Supply:** 220-240V/1ph/50-60Hz
- **Panel Rating:** NEMA 12 (IP 54)

Options

- **Manual or automatic wiper**
- **Stainless steel panel**

Materials

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

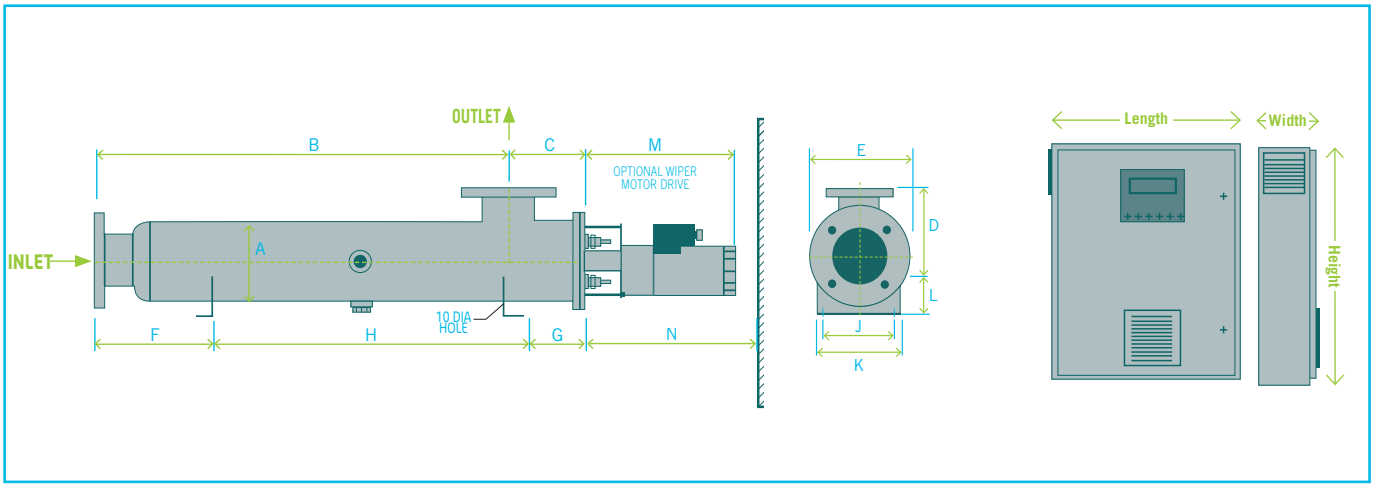
Remote controls and signals

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

DIMENSIONS

Aquaray® SLP Model	Reactor (inch)													In-Out	Panel: l x h x w (inch)
	A	B	C	D	E	F	G	H	J	K	L	M	N	inch	
SLP 150-75-1	6	49	6	6	9	9	7	39	5	6	5	12	54	3	16 x 24 x 8
SLP 200-100-2	8	49	6	7	11	9	7	39	7	8	6	12	54	4	16 x 24 x 8
SLP 200-150-3	8	49	6	7	11	9	7	39	7	8	6	12	54	6	24 x 24 x 8
SLP 250-150-4	10	53	6	8	13	13	7	39	9	10	7	12	54	6	24 x 24 x 8
SLP 250-200-6	10	53	6	8	13	13	7	39	9	10	7	12	54	8	24 x 24 x 8
SLP 300-200-8	12	52	7	10	15	13	7	39	11	12	8	12	54	8	32 x 32 x 8
SLP 350-250-10	14	51	8	12	17	13	7	39	13	14	10	12	54	10	32 x 32 x 8
SLP 350-250-12	14	51	8	12	17	13	7	39	13	14	10	12	54	10	32 x 32 x 8
SLP 400-300-14	16	51	8	12	19	13	7	39	15	16	10	12	54	12	32 x 32 x 8

Size connection flanges confirmed with proposal



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