



HEADWORKS
BIOLOGY
SEPARATION
MEMBRANE
▶ **DISINFECTION**
BIOSOLIDS
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
 - Temperature 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 25 to 600 m³/h 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 parasites. 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.

TECHNICAL DATA

Aquray® SLP Model	Flow Rate ⁽¹⁾	Total Lamp Power
	m ³ /h	W
SLP 150-75-1	26	200
SLP 200-100-2	60	400
SLP 200-150-3	90	600
SLP 250-150-4	140	800
SLP 250-200-6	200	1200
SLP 300-200-8	290	1600
SLP 350-250-10	380	2000
SLP 350-250-12	460	2400
SLP 400-300-14	600	2800

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

► Materials

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

► Standards

- **Flanges:** BS, ANSI
- **Reactor Pressure Rating:** 10 barg
- **Electrical:** CE, EN
- **Main Power Supply:** 220-240V/1ph/50-60 Hz
- **Panel Rating:** IP54
- **Conformity:** CE

► Options

- Manual or automatic wiper
- Stainless steel panel

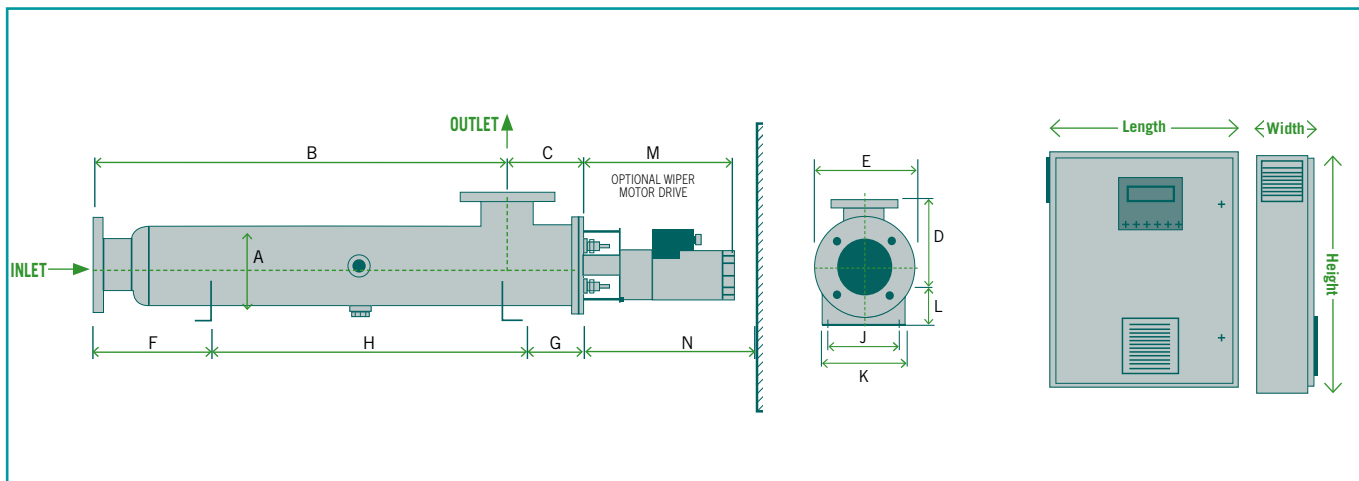
► Remote controls and signals

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

DIMENSIONS

Aquray® SLP Model	Reactor (mm)														In-Out inch	Panel: l x h x w (mm)
	A	B	C	D	E	F	G	H	J	K	L	M	N			
SLP 150-75-1	150	1250	150	150	225	230	185	1000	120	150	125	300	1375	3	400 x 600 x 200	
SLP 200-100-2	200	1250	150	175	275	230	185	1000	170	200	150	300	1375	4	400 x 600 x 200	
SLP 200-150-3	200	1250	150	175	275	230	185	1000	170	200	150	300	1375	6	600 x 600 x 200	
SLP 250-150-4	250	1350	150	200	325	330	185	1000	220	250	175	300	1375	6	600 x 600 x 200	
SLP 250-200-6	250	1350	150	200	325	330	185	1000	220	250	175	300	1375	8	600 x 600 x 200	
SLP 300-200-8	300	1330	170	250	375	330	185	1000	270	300	200	300	1375	8	800 x 800 x 200	
SLP 350-250-10	350	1300	200	300	425	330	185	1000	320	350	250	300	1375	10	800 x 800 x 200	
SLP 350-250-12	350	1300	200	300	425	330	185	1000	320	350	250	300	1375	10	800 x 800 x 200	
SLP 400-300-14	400	1300	200	300	475	330	185	1000	370	400	250	300	1375	12	800 x 800 x 200	

Size connection flanges confirmed with proposal



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