



HEADWORKS BIOLOGY SEPARATION MEMBRANE ▶ DISINFECTION BIOSOLIDS SYSTEMS					
UV DISINFECTION	MEDIUM PRESSURE	WASTE WATER	REUSE	<p>▶ Applications</p> <ul style="list-style-type: none"> - Wastewater Disinfection - Wastewater Reuse - Grey Water - Camp Grounds - Hotels, Hospitals - Restaurants - Marine 	
				<p>▶ Main characteristics</p> <ul style="list-style-type: none"> - Multi emission medium pressure Lamp - Simple control logic 	



The Aquaray® SMP-WW range offers compact and high efficiency system for small and medium waste water plant with a range of flow rates from 20 to 346 m³/h with exceptional reliability and ease of operation.

MAIN FEATURES

- Polychromatic medium pressure lamps for highest germicidal efficiency
- Fewer lamps
- Data logging up to one year
- Easy to install in new or existing waste water plants
- User friendly operator interface microprocessor controlled

UV TECHNOLOGY: SMP-WW

The Aquaray® SMP-WW units have been designed to disinfect waste water. The germicidal effect of the UV light inactivates most micro-organisms such as bacteria, viruses and parasites. The medium pressure lamps have an action on nucleic acid and proteins for micro-organisms inactivation.

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 medium pressure lamps are powered by magnetic ballasts. The lamps are inserted in pure quartz sleeves isolating them from the water. The lamps can be easily changed when indicated by the micro-processor control unit.

A UV sensor is installed to monitor UV intensity. The reactor is fitted with an automatic wiper system for cleaning the UV lamp quartz sleeves.

TECHNICAL DATA

Aquaray® SMP-WW Model	Flow Rate ⁽¹⁾	Lamp Power
	m ³ /h	kW
SMP 100-75-1/2	20	1.5
SMP 200-75-1	40	3
SMP 250-100-2	82	6
SMP 250-150-3	126	9
SMP 250-150-4	168	9
SMP 250-200-3	253	18
SMP 300-250-4	346	24

(1) Based on 35 mJ/cm² UV dose at 65% UV transmittance

► Materials

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

► Standards

- **Flanges:** BS, ANSI
- **Reactor Pressure Rating:** 10 barg
- **Electrical:** CE, EN
- **Main Power Supply:** 400V/3ph/50-60 Hz
- **Panel Rating:** IP54
- **Conformity:** CE

► Remote controls and signals

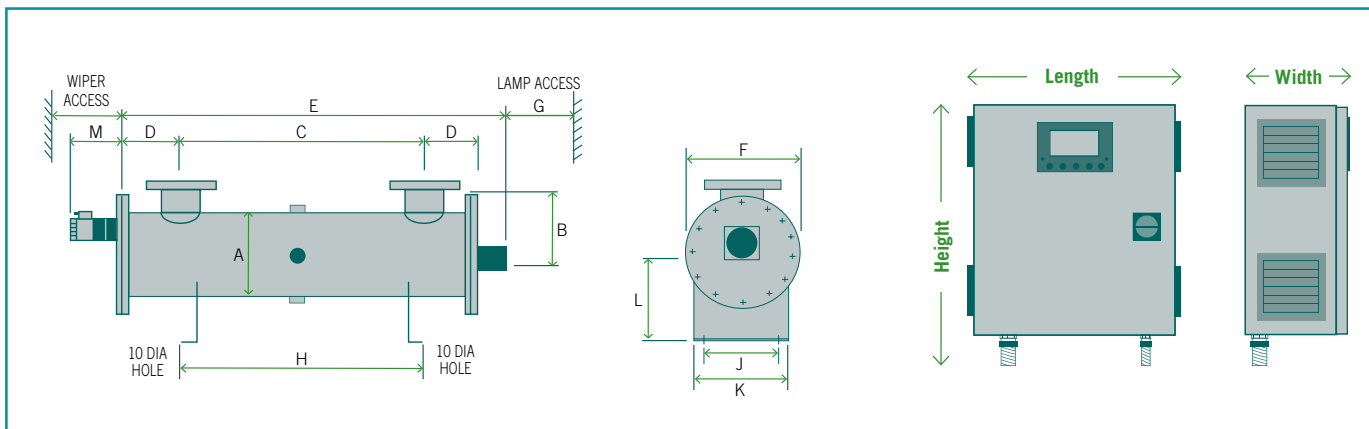
- **Digital Inputs:** lamp start-stop, water flow interlock
- **Digital Outputs:** system status, pre-alarm, alarm
- **Analog Output:** remote indication of UV intensity

► Options

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

DIMENSIONS

Aquaray® SMP-WW Model	Reactor Dimensions (mm)												Panel: l x h x w	In-out
	A	B	C	D	E	F	G	H	J	K	L	M	mm	inch
SMP 100-75-1/2	150	150	700	145	1065	225	900	700	120	150	125	285	600 x 800 x 200	3
SMP 100-75-1	150	150	700	145	1065	225	900	700	120	200	125	285	600 x 800 x 200	3
SMP 200-100-2	200	175	650	170	1065	275	900	700	170	200	150	285	800 x 1000 x 300	4
SMP 250-150-3	250	200	600	195	1065	275	900	700	170	250	150	285	800 x 1800 x 500	6
SMP 250-150-4	250	200	600	195	1065	325	900	700	220	250	175	285	800 x 1800 x 500	6
SMP 250-200-3	250	200	900	220	1415	325	1250	1000	220	250	175	285	800 x 1800 x 500	8
SMP 300-250-4	300	250	900	220	1415	375	1250	1000	270	300	200	285	800 x 1800 x 500	10



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