

AQUARAY® SMP-WW

UV Systems

UV

The Aquaray® SMP-WW range offers reliable and high efficiency disinfection for small to medium size waste water plants with flow rates up to 1500 gpm.

APPLICATIONS

- Wastewater Disinfection
- Wastewater Reuse
- Grey Water
- Camp Grounds
- Hotels
- Hospitals
- Restaurants
- Marine

MAIN CHARACTERISTICS

- Polychromatic medium pressure Lamps
- Power step regulation
- Simple control logic

MAIN FEATURES

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

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 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 the water to be treated as well as the hydraulic design of the unit.

HOW IT WORKS

The medium pressure lamps are powered by magnetic ballasts. The lamps are inserted in 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 quartz sleeves.



PRODUCT HIGHLIGHTS

- > Polychromatic medium pressure lamps
- > Data logging up to one year
- > Automatic mechanical wiper

OZONIA

TECHNICAL DATA SMP-WW Model	Flow Rate ⁽¹⁾ (gpm)	Total Lamp Power (kW)	Reactor (in.)												In-Out	Control Panel: L x H x W (in.)
			A	B	C	D	E	F	G	H	J	K	L	M		
SMP 150-75-1/2	88	1.5	5.9	5.9	27.6	5.7	41.9	8.9	35.4	27.6	4.7	5.9	4.9	11.2	DN 80	23.6 x 23.6 x 8.3
SMP 150-75-1	176	3	5.9	5.9	27.6	5.7	41.9	8.9	35.4	27.6	4.7	7.9	4.9	11.2	DN 80	23.6 x 23.6 x 8.3
SMP 200-150-2	361	6	7.9	6.9	23.6	7.7	41.9	10.8	35.4	27.6	6.7	7.9	5.9	7.3	DN 150	31.5 x 47.2 x 11.8
SMP 250-150-3	555	9	9.8	7.9	23.6	7.7	41.9	12.8	35.4	27.6	8.7	9.8	6.9	11.2	DN 150	31.5 x 70.9 x 19.7
SMP 250-150-4	740	9	9.8	7.9	23.6	7.7	41.9	12.8	35.4	27.6	8.7	9.8	6.9	11.2	DN 150	31.5 x 70.9 x 19.7
SMP 250-200-3	1115	18	9.8	7.9	35.4	8.7	55.7	12.8	49.2	39.4	8.7	9.8	6.9	11.2	DN 200	31.5 x 70.9 x 19.7
SMP 300-250-4	1524	25	11.8	9.8	35.4	8.7	55.7	14.8	49.2	39.4	10.6	11.8	7.9	11.2	DN 250	31.5 x 70.9 x 19.7

Size connection flanges confirmed with proposal

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

TECHNICAL FEATURES

- Flanges: BS 4504 (PN10), or ANSI 150
- Reactor Pressure Rating: 10 barg
- Main Power Supply: 400-480V/3ph/50-60 Hz
- Panel Rating: IP54
- Conformity: CE

MATERIALS

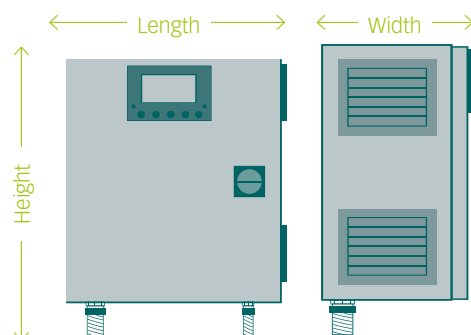
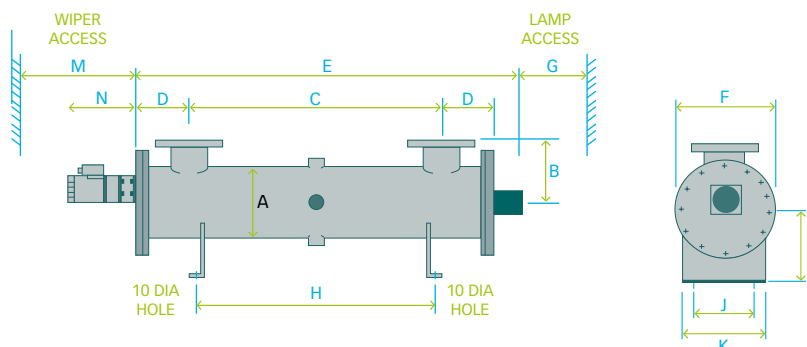
- Reactor material: 316L stainless steel/quartz sleeve/silicon O-ring
- Panel material: polyester coated mild steel

OPTIONS

- Power step regulation
- Stainless steel panel

REMOTE CONTROL AND ALARMS

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



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