

AQUARAY® SMP-DW/PW

UV Systems

UV

The Aquaray® SMP-DW/PW range offers reliable and high efficiency disinfection for small to medium size plants with flow rates up to 1900 gpm.

APPLICATIONS

- Drinking water
- Process water
- Aquaculture
- Deozonation
- Toc Reduction
- Ballast water
- Cooling water
- Advanced oxidation

MAIN CHARACTERISTICS

- Broad spectrum medium pressure Lamp
- Power step regulation
- Simple control logic

MAIN FEATURES

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

UV TECHNOLOGY : SMP-DW/PW

The Aquaray® SMP-DW/PW 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 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 radiation. An optional mechanical wiper system is available for cleaning the quartz sleeves.



PRODUCT HIGHLIGHTS

- Polychromatic medium pressure lamps
- User friendly operator interface
- Automatic mechanical wiper

OZONIA

TECHNICAL DATA SMP-DW/PW 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	N		
SMP 100-75-1/2	97	1.5	3.9	4.9	27.6	5.7	41.9	6.9	35.4	27.6	2.8	3.9	3.9	13.8	11.2	DN 80	23.6 x 23.6 x 8.3
SMP 100-75-1	194	3	3.9	4.9	27.6	5.7	41.9	6.9	35.4	27.6	2.8	3.9	3.9	13.8	11.2	DN 80	23.6 x 23.6 x 8.3
SMP 150-100-1	348	3	5.9	5.9	25.6	6.7	41.9	8.9	35.4	27.6	4.7	5.9	4.9	13.8	11.2	DN 100	23.6 x 23.6 x 8.3
SMP 200-150-1	480	3	7.9	6.9	23.6	7.7	41.9	10.8	35.4	27.6	6.7	7.9	5.9	13.8	11.2	DN 150	23.6 x 23.6 x 8.3
SMP 250-150-1	599	3	9.8	7.9	23.6	7.7	12.8	12.8	35.4	39.4	8.7	9.8	6.9	13.8	11.2	DN 150	23.6 x 23.6 x 8.3
SMP 250-200-1	1198	6	9.8	7.9	23.6	8.7	14.8	12.8	49.2	39.4	8.7	9.8	6.9	13.8	11.2	DN 200	31.5 x 47.2 x 11.8
SMP 300-250-1	1405	6	11.8	9.8	35.4	8.7	16.7	14.8	49.2	39.4	10.6	11.8	7.9	13.8	11.2	DN 250	31.5 x 47.2 x 11.8
SMP 300-250-2	1938	12	11.8	9.8	35.4	8.7	25.6	14.8	49.2	39.4	10.6	11.8	7.9	13.8	11.2	DN 250	31.5 x 47.2 x 19.7

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: 400-480V/3ph/50-60 Hz
- Panel Rating: IP54
- Conformity: CE

MATERIALS

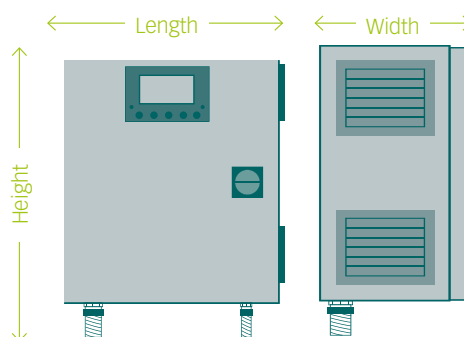
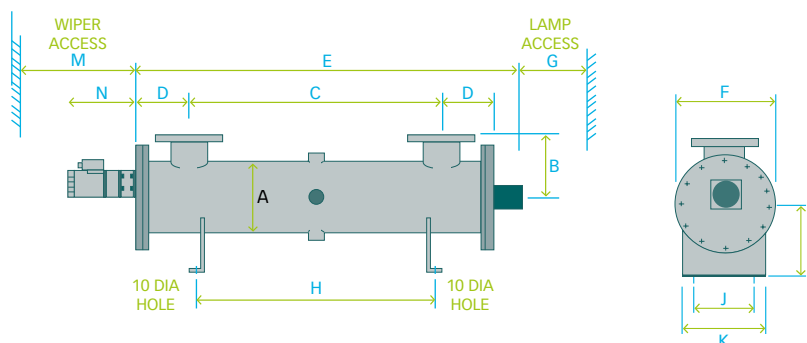
- Reactor material: 316L stainless steel/quartz sleeve/silicon O-ring
- Panel material: polyester coated mild steel

OPTIONS

- Automatic wiper
- Power step regulation
- Stainless steel panel
- Triclamp
- Welded reactor surfaces (0.35 µm) and electropolished

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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