

# TRIOGEN

# AQUARAY® SMP-WF

UV Systems



UV DISINFECTION	MEDIUM PRESSURE	WATER FEATURES	LAKES	<a href="#">← Applications</a> <ul style="list-style-type: none"><li>- Water Features</li><li>- Lakes</li><li>- Ponds</li><li>- Fountains</li></ul>
				<a href="#">← Main characteristics</a> <ul style="list-style-type: none"><li>- Multi emission medium pressure Lamp</li></ul>



The Aquaray® SMP-WF range offers compact and high efficiency system for medium and large ponds, lakes or water features with a range of flow rates from 23 to 1000 m<sup>3</sup>/h with exceptional reliability and ease of operation.

## MAIN FEATURES

- Polychromatic medium pressure lamps for highest germicidal efficiency
- Few high power lamps for lower maintenance cost
- Optional automatic “Smartdrive” wiper system
- Easy to install in new or existing water plants
- User friendly operator interface microprocessor controlled
- Data logging one year

## UV TECHNOLOGY: SMP-WF

The Aquaray SMP-WF® units provides a reliable protection against biological contaminants commonly found in pond or water features. 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 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 electronic ballasts. The lamps are inserted in pure quartz thimbles isolating them from the water. The lamps can be easily changed when indicated by the micro-processor control unit.

A UV sensor is available in option to monitor UV intensity. The periodic maintenance of the system has been made very easy by allowing the removal of the full lamp assembly.



## TECHNICAL DATA

Aquray® SMP-WW Model	Flow Rate <sup>(1)</sup>		Lamp Power
	m <sup>3</sup> /h	gpm	kW
SMP 150-75-1/2	23	100	1.5
SMP 150-75-1	45	200	3.0
SMP 200-100-1	60	265	3.0
SMP 200-150-2	110	485	6.0
SMP 300-150-1	160	705	6.0
SMP 300-200-2	285	1255	12.0
SMP 400-250-3	500	2200	18.0
SMP 400-250-4	670	2950	24.0
SMP 400-300-6	1000	4405	36.0

(1) Based on 60 mJ/cm<sup>2</sup> UV dose at 90% UV transmittance

### ► Standards

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

### ► Remote controls and signals

- Digital Inputs: lamp start-stop
- Digital Outputs: system healthy, pre-alarm, alarm

### ► Materials

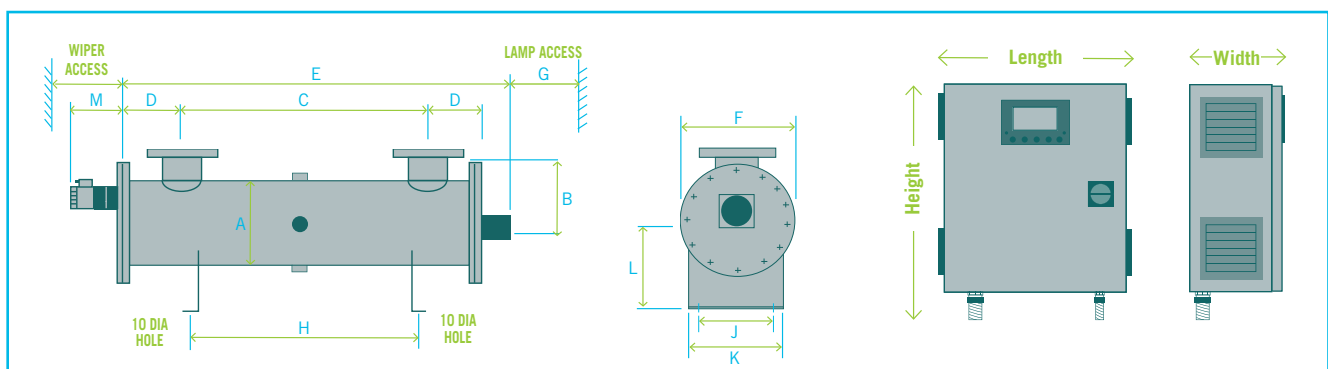
- Reactor Material: 316L stainless steel/quartz thimble/  
silicon O-ring
- Panel Material: polyester coated mild steel

### ► Options

- Automatic wiper
- Stainless steel panel
- UV sensor

## DIMENSIONS

Aquray® 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	mm	inch
SMP 150-75-1/2	150	150	700	145	1065	225	900	700	120	125	125	600 x 800 x 200	3
SMP 150-75-1	150	150	700	145	1065	225	900	700	120	125	125	600 x 800 x 200	3
SMP 200-100-1	200	175	650	170	1065	275	900	700	170	200	150	600 x 800 x 200	4
SMP 200-150-2	200	175	600	195	1065	275	900	700	170	200	150	800 x 1000 x 300	6
SMP 300-150-1	300	250	840	250	1415	375	1250	1000	270	300	200	800 x 1000 x 300	6
SMP 300-200-2	300	250	840	250	1415	375	1250	1000	270	300	200	800 x 1800 x 500	8
SMP 400-250-3	400	300	720	310	1415	475	1250	1000	370	400	250	800 x 1800 x 500	10
SMP 400-250-4	400	300	720	310	1415	475	1250	1000	370	400	250	800 x 1800 x 500	10
SMP 400-300-6	400	300	720	310	1415	1250	1250	1000	370	400	250	800 x 1800 x 500	12



## Contacts

[www.DEGREMONT-TECHNOLOGIES.COM](http://www.DEGREMONT-TECHNOLOGIES.COM)

### Ozonia Triogen UK

Ozonia International UV  
Ozonia France  
Ozonia Switzerland  
Ozonia North America  
Ozonia Russia OOO  
Ozonia Korea  
Ozonia China  
Ozonia Japan

- [info-triogen@degtec.com](mailto:info-triogen@degtec.com)
- [info-ozoniaFR@degtec.com](mailto:info-ozoniaFR@degtec.com)
- [info-ozoniaFR@degtec.com](mailto:info-ozoniaFR@degtec.com)
- [info-ozoniaCH@degtec.com](mailto:info-ozoniaCH@degtec.com)
- [info-ozonia@degtec.com](mailto:info-ozonia@degtec.com)
- [info-ozoniaRU@degtec.com](mailto:info-ozoniaRU@degtec.com)
- [info-ozoniaKR@degtec.com](mailto:info-ozoniaKR@degtec.com)
- [info-china@degtec.com](mailto:info-china@degtec.com)
- [info-japan@degtec.com](mailto:info-japan@degtec.com)

- + 44 141 810 4861
- + 33 1 46 253 950
- + 33 1 46 253 950
- + 41 44 801 8511
- + 1 201 794 3100
- + 7 831 220 3256
- + 82 31 701 9036
- + 86 10 659 73 860
- + 81 3 544 46 361

Your local distributor :