

DISINFECTION 09/12

AQUA COMPACT OZONE & UV

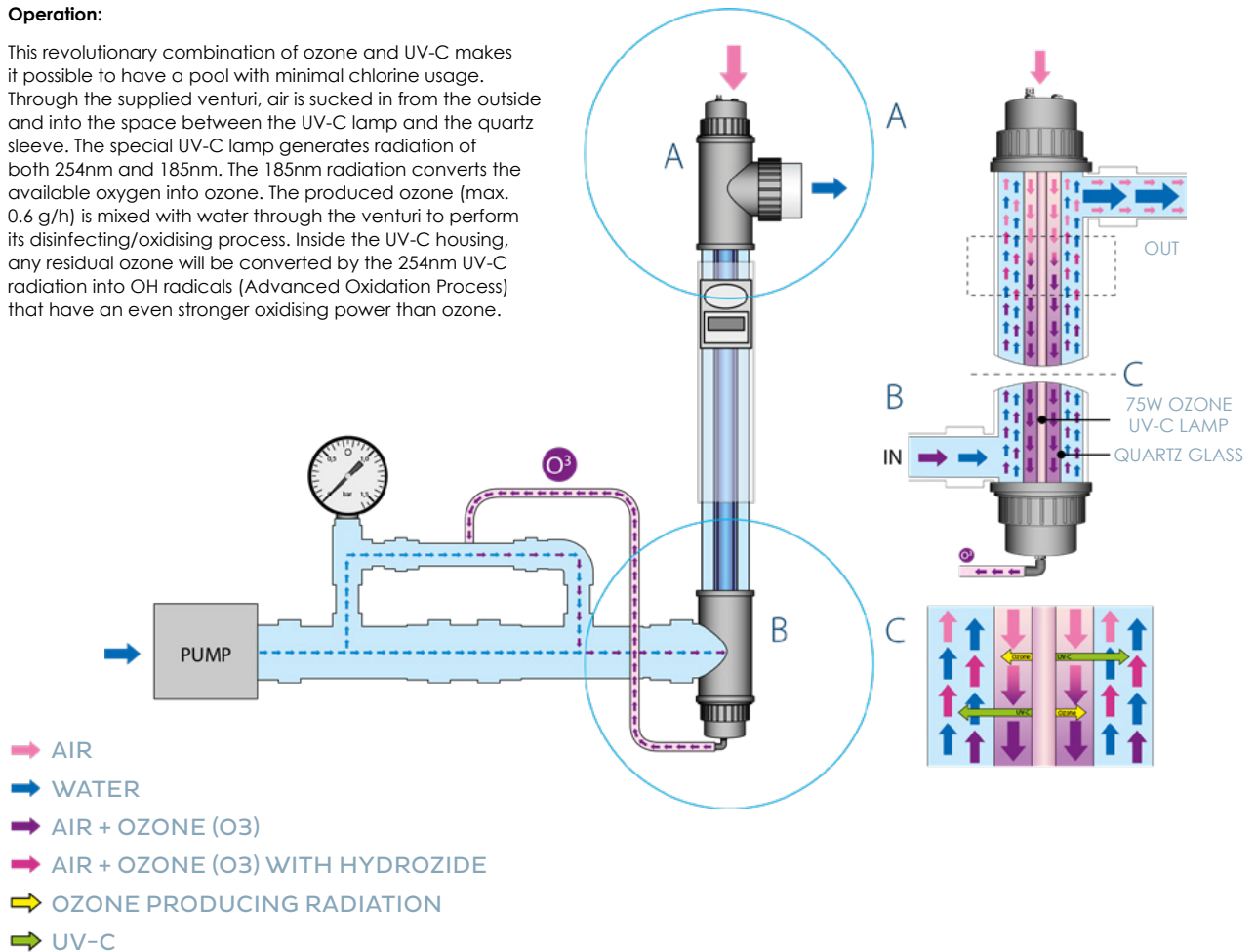
✓ Technical features

- Triple disinfection: ozone, OH radicals and UV-C
- A built-in electronic ballast to ensure an efficient and stable power supply
- Up to 35% more UV-C yield as a result of reflection
- 100% effective and constant operation
- AISI-316L stainless steel housing
- The ozone UV-C lamp produces ozone for 4,500 hours and UV-C for 9,000 hours
- The device will indicate when the lamp needs replacing
- Easy installation and maintenance



Operation:

This revolutionary combination of ozone and UV-C makes it possible to have a pool with minimal chlorine usage. Through the supplied venturi, air is sucked from the outside and into the space between the UV-C lamp and the quartz sleeve. The special UV-C lamp generates radiation of both 254nm and 185nm. The 185nm radiation converts the available oxygen into ozone. The produced ozone (max. 0.6 g/h) is mixed with water through the venturi to perform its disinfecting/oxidising process. Inside the UV-C housing, any residual ozone will be converted by the 254nm UV-C radiation into OH radicals (Advanced Oxidation Process) that have an even stronger oxidising power than ozone.



The lamp has a double function, producing ozone and UV-C light at the same time. The ozone in the water will be completely broken down by the UV-C light, because OH-radicals are being produced which have a high oxidation potential. This result in oxidation of the organic pollution in the water and the UV-C light will also disinfect the water at the same time.

What is AOP?

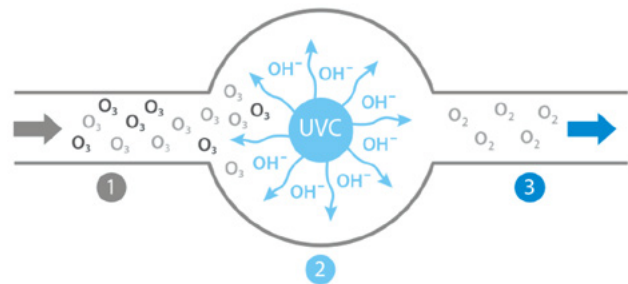
The Advanced Oxidation Process (AOP) combines the benefits of ozone and UV-C into one device. When ozone is used in combination with UV-C light in water, hydroxyl radicals (OH⁻) are created. These radicals are very effective in oxidizing the water and therefore reduction the organic pollution in the water, also chlorine disinfection by-products such as THM and chloramines are being reduced. The UV-C light not only disinfects the water very effectively (also chlorine resistant organism like Cryptosporidium and Giardia are being inactivated) but it also reduces the chloramines in the water. Since UV-C light will destroy the residual ozone in the water, there is no deozoneation device needed. AOP is a very effective and efficient way of sanitizing and disinfecting your pool. As a result the amount of chlorine in a pool can be kept to a minimum.



PLEASE NOTICE THE CORRECT GROUNDING

Benefits of AOP:

- Strong combination of ozone (oxidation) and UV-C (disinfection)
- Improves the disinfection efficiency
- Makes a pool with a minimal amount of chlorine possible
- Effective against chlorine resistant microorganisms
- Prevents skin and eye irritation
- Can be quickly added to existing filtration



Models

PRODUCT CODE	UVC-03
TYPE	75.000/ 75 W
REC.FLOW FOR 30 MJ/CM2	18 m ³ /h
MAX. PRESSURE	2
MAX. FLOW	23
DIAMETER UNIT	70 mm
LENGTH UNIT	100 cm
DIAMETER IN -OUTLET	63 mm/50 mm/1.5"
STAINLESS STEEL	316 L
ELECTRONIC BALLAST	230V AC 50/60Hz
MAXIMUM CURRENT	0.57A
LAMP POWER	75 W
LAMP	VGE T5 75 W Ozone
LIFESPAN LAMP	4.500 HOURS OZONE - 9.000 HOURS UVC
OZONE	0.6 gr/h
REPLACE LAMP ALERT	YES
TIMER	YES
WEIGHT	6 KG
PACKING VOLUME	0.053



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