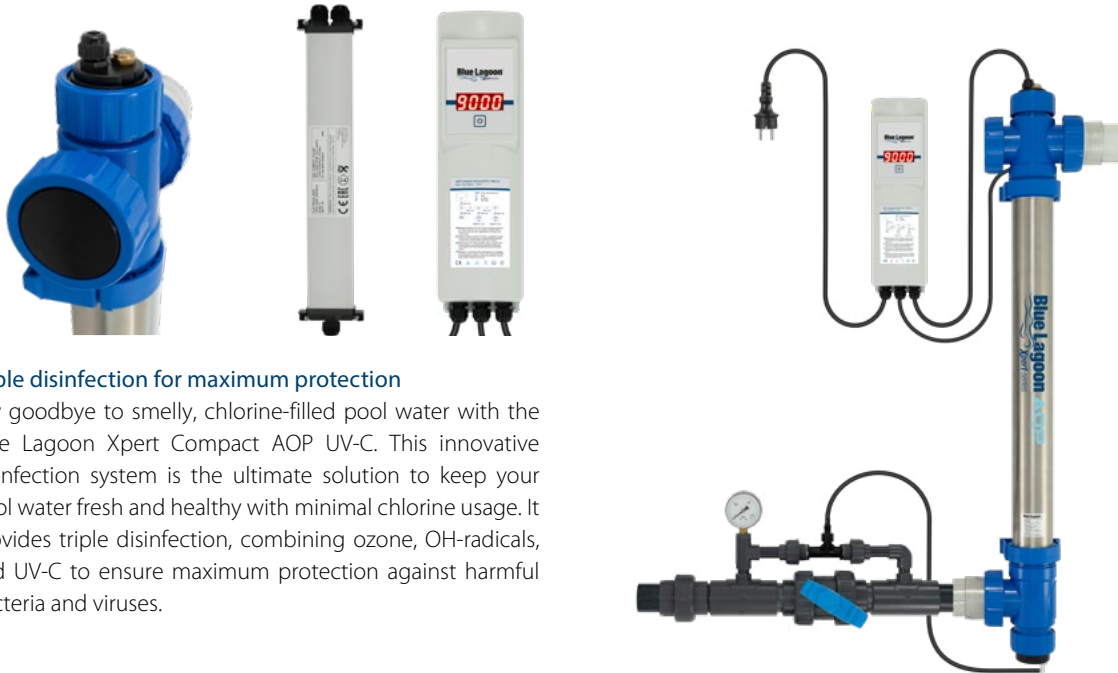




AOP

Blue Lagoon Xpert Compact AOP UV-C



Triple disinfection for maximum protection

Say goodbye to smelly, chlorine-filled pool water with the Blue Lagoon Xpert Compact AOP UV-C. This innovative disinfection system is the ultimate solution to keep your pool water fresh and healthy with minimal chlorine usage. It provides triple disinfection, combining ozone, OH-radicals, and UV-C to ensure maximum protection against harmful bacteria and viruses.

Advantages of the Blue Lagoon Xpert Compact AOP UV-C

- This unit provides triple disinfection: ozone, OH radicals and UV-C
- A stand-alone electronic ballast to guarantee an efficient and stable power supply in addition to maximum installation flexibility
- Up to 35% more UV-C yield as a result of reflection by the stainless steel reactor
- Duplex stainless steel housing, suitable for use in chlorine and salt electrolysis pools
- The ozone UV-C lamp produces ozone and UV-C for 9,000 hours
- The device will indicate when the lamp needs replacing
- Easy installation and maintenance
- Made in the Netherlands



Blue Lagoon Xpert Compact AOP UV-C

Operation

The combination of ozone and UV-C makes it possible to have a pool with minimal chlorine usage. Through the supplied venturi, air is sucked in from the outside into the space between the UV-C lamp and the quartz sleeve. The special UV-C lamp generates radiation of both 254 nm and 185 nm. The 185 nm 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 disinfection and oxidising job. Inside the UV-C housing, any residual ozone will be converted by the 254 nm UV-C radiation into OH radicals (the so called Advanced Oxidation Process) that have an even stronger oxidising power than ozone.

Revolutionary Operation for Maximum Results

Blue Lagoon Xpert Compact AOP UV-C's revolutionary combination of ozone and UV-C produces OH radicals that have an even stronger oxidizing power than ozone, resulting in the oxidation of organic pollutants in the water. This system's double-function lamp produces both ozone and UV-C, ensuring that the water is disinfected and purified at the same time.

Long-Lasting Performance and Easy Maintenance

The device's ozone UV-C lamp produces ozone and UV-C for up to 9.000 hours, and the unit will indicate when the lamp needs replacing. Additionally, the Blue Lagoon Xpert Compact AOP UV-C is easy to install and maintain, making it a hassle-free solution for clean pool water.

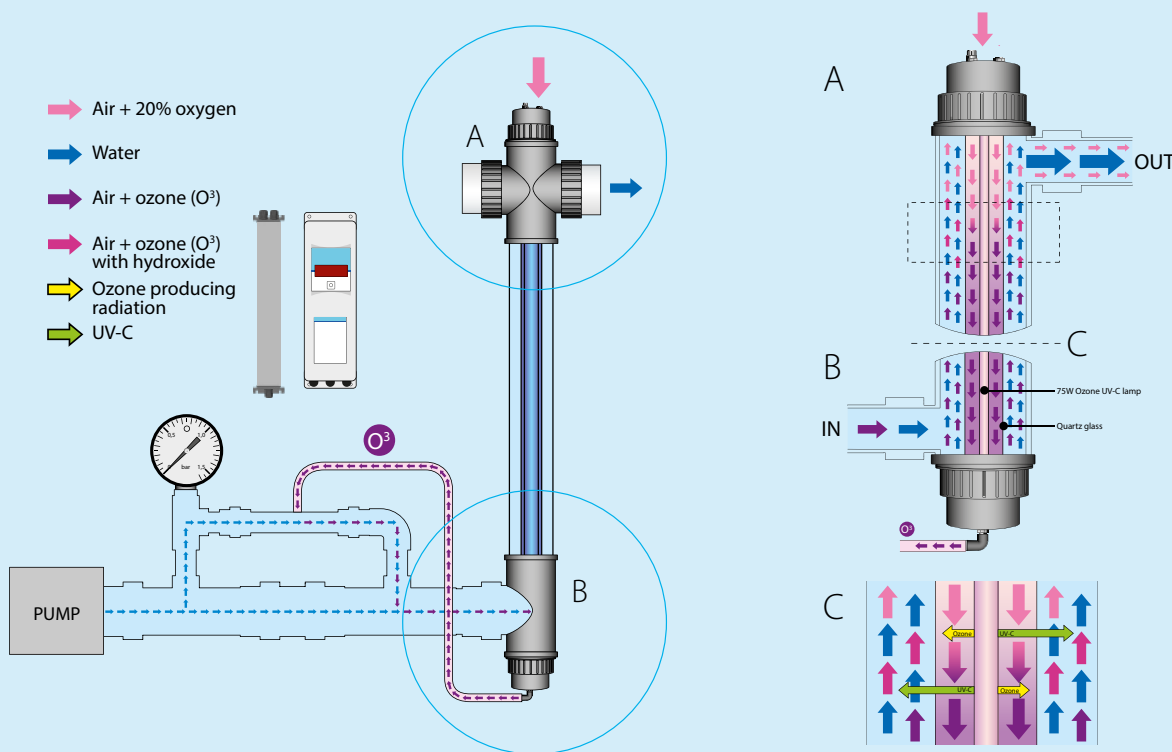
The combination of ozone and UV-C, integrated in this cleverly designed disinfection system, ensures fresh and healthy pool water with the possibility of providing a minimum use of chlorine.



What is AOP?

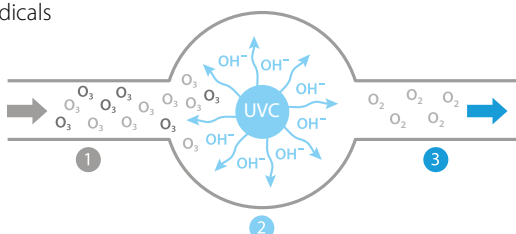
The VGE Advanced Oxidation Process (AOP) combines the benefits of ozone and UV-C into one device. When ozone is used in combination with UV-C light in water, hydroxyl radicals ($\cdot\text{OH}$) are created. These radicals are very effective in oxidizing micropollutants in the water and therefore reducing the organic and inorganic pollution in the water. 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 organisms like Cryptosporidium and Giardia are successfully being inactivated. Lastly it directly reduces the chloramines in the water. The UV-C system is designed in a way that all the ozone in the water is being used for the AOP process, therefore no deozonation device is needed if the advised flowrates are met. 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.

Blue Lagoon Xpert Compact AOP UV-C



More about AOP

The Advanced Oxidation Process (AOP) is the best available water treatment technology at this moment. AOP uses $\cdot\text{OH}$ radicals which have the highest oxidation potential of oxidants that can be used in water treatment systems. When dissolved ozone (1) is irradiated by UV-C radiation in a UV treatment chamber (2), then $\cdot\text{OH}$ -radicals are created. The lifetime of $\cdot\text{OH}$ -radicals is extremely short, because of that the entire treatment process takes place within the UV treatment chamber. Treated water (3) is without $\cdot\text{OH}$ -radicals



The lamp has a double function, producing ozone and UV-C radiation at the same time. The ozone in the water will be completely broken down by the UV-C radiation. Because of this, so called $\cdot\text{OH}$ -radicals are being produced which have a high oxidation potential. This results in oxidation of the organic pollution in the water and the UV-C radiation will also disinfect the water at the same time.

Benefits 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 systems.



	Compact Timer 75 W	Compact 75 W
Art. number	BH12752	BH12753
Type	75 W	75 W
EAN	8714404040617	8714404042352
Rec. flow for 30 mJ/cm ²	18 m ³ /h	18 m ³ /h
Max. pressure	2,5 bar	2,5 bar
Max. flow	23 m ³ /h	23 m ³ /h
Diameter unit Ø	70 mm	70 mm
Length unit	100 cm	100 cm
Diameter in-outlet Ø	63 mm / 50 mm / 1½"	63 mm / 50 mm / 1½"
Housing material	DUPLEX	DUPLEX
Electronic ballast	230 V AC 50 Hz	230 V AC 50 Hz
Lamp power	75 W	75 W
Lamp	VGE T5 75 W Ozone	VGE T5 75 W Ozone
Lifespan lamp	9.000 hours Ozone - 9.000 hours UV-C	9.000 hours Ozone - 9.000 hours UV-C
Ozone	0,6 gr/h	0,6 gr/h
Timer	✓	-
Replace lamp alert	✓	-
Weight	5,6 Kg	5,6 Kg
Quantity full pallet	30 pcs	30 pcs



Spare parts

A	4800033AM	Lamp VGE T5 75W Ozon Base H AM Packed
B	QG109	Quartz Glass VSC 925 x 30 mm open end AM
C	E800912	O-Ring for quartz sleeve (3 pieces)
D	EP075070	Electrics for BL Xpert Compact AOP UV-C Timer 75 W
	EP075083	Electrics for BL Xpert Compact AOP UV-C 75 W
E	H170024	Housing BL Xpert Compact AOP UV-C
F	B915000	Set (2pcs) 3-way connection blue 63 mm
	E800944	Set (2pcs) 3-way connection USA / UK 60½ mm
G	E800941	Set (3pcs) O-rings 3-way connection
H	F990115	Reduction piece 1,5" female threaded x 63mm out/ 50mm in ABS
I	B290006	Mounting bracket 75 mm PP Blue
J	F990103	End cap with air plug for BL Xpert AOP Compact Ozone & UV-C 75 W V2
K	B290010	Nut 70 mm x 33.5 mm ABS Blue
L	3902158	O-ring NBR 57 mm x 2.5 mm
N	3902269	Sealing set BL Xpert Compact AOP UV-C
P	4800068	Venturi unit BL Xpert Compact AOP UV-C (excl. manometer)
Q	4800057	Manometer BL Xpert Compact AOP UV-C
R	4800145	Ozone Viton Check valve + hose (Short 16 cm + 72 cm)
S	4800020	PU hose black for Ozone
T	F990196BU	Closing lid black
V	3901013	Open Glass adapter T-piece ABS Black

* For pre 2021 model, please see our website

Optional sets

GFH	SP0094	Blue Lagoon Connection Kit
GFH	SP0097	Blue Lagoon Connection Kit UK-USA

