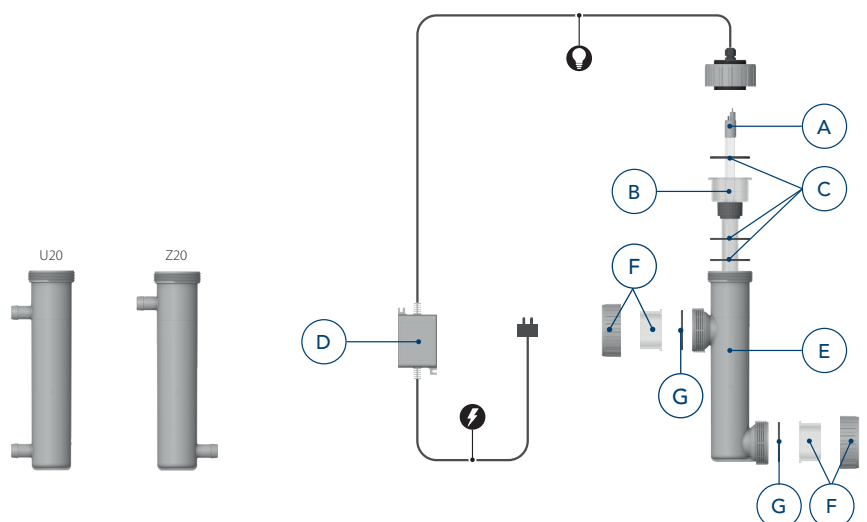


| | 21 W Z50 BE01215 | 21 W U20 BE01217 | 21 W Z20 BE01216 |
|--|-----------------------|-----------------------|-----------------------|
| Article number | BE01215 | BE01217 | BE01216 |
| Type | 21 W | 21 W | 21 W |
| EAN | 8714404042468 | 8714404042604 | 8714404042536 |
| Maximum flow for 30 mJ/cm ² | 3 m ³ /h | 2,5 m ³ /h | 2,5 m ³ /h |
| Maximum pressure | 1 bar | 1 bar | 1 bar |
| Diameter unit Ø | 58 mm | 58 mm | 58 mm |
| Length unit | 35 cm | 35 cm | 35 cm |
| In/outlet connections Ø | 50 mm/1½" BSPP female | 20 mm | 20 mm |
| Housing material | PC/ASA | PC/ASA | PC/ASA |
| Lifespan lamp | 9 000 hours | 9 000 hours | 9 000 hours |



Spare parts

| Available for: | | | 21 W Z50 | 21 W U20 | W 21 Z20 |
|---|-----------|--|----------|----------|----------|
| A | F980180AM | Lamp VGE T5 21 W 185Nm 4P Base K packed | √ | √ | √ |
| B | QG089 | Quartz glass VSC 281 x 25 mm 21 W AM | √ | √ | √ |
| C | E800912 | Set O-ring for quartz glass | √ | √ | √ |
| D | EP021012 | Electrics for BL UV-C SpAOP 21 W LED indicator | √ | √ | √ |
| E | B212502 | Housing BL Spa UV-C/Copper Electrolyzer | √ | | |
| | B212503 | Housing BL Spa UV-C U20 21 W 230V | | √ | |
| | B212504 | Housing BL Spa UV-C Z20 21 W 230V | | | √ |
| F | B212014 | Set 3-way connection 50 mm | √ | | |
| | B212015 | Set 3-way connection 48 mm USA-UK | √ | | |
| G | E801509 | O-ring 3-way connection NBR 53x4,5 | √ | | |
| GFH SP0096 Blue Lagoon SPA Connection Kit | | | √ | | |



SPAOP UV



Operation

The SpAOP UV-C uses a special UV lamp that emits energy at wavelengths of both 254 nm and 185 nm. UV radiation at the specific wavelength of 185 nanometres is highly energetic and has enough energy to break molecular bonds in water molecules (H_2O). By doing so free radicals ($\cdot OH$) will be created in the water through a process known as photodissociation. The newly formed free radicals react with dissolved substances and (in)organic pollutants, leading to the oxidation of these substances. This improves the transmission rate which in time benefits the regular UV-C disinfection.

Double function, double performance

The Blue Lagoon SpAOP UV-C's efficiency is based on the units special double-function lamp that produces both direct OH-radicals, that have an even stronger oxidizing power than ozone, and UV-C disinfection, ensuring that the water is disinfected and purified at the same time.

Sustainable & Efficient Performance, Easy Maintenance

The double function lamp has an efficient lamp life up to 9 000 hours with an LED replacement indication integrated in the ballast. In addition to the long lamp life, the Blue Lagoon SpAOP UV-C is easy to install and maintain, making it a sustainable, easy to install and maintain, energy efficient and cost-efficient water treatment for Spa and Hot Tub.



Reliable and effective disinfection

The by the UV lamp emitted UV-C energy at a wavelength of 254 nm is responsible for the disinfection of the water. This wavelength is absorbed by the DNA/RNA of microorganisms and viruses and because of this their reproduction mechanism is damaged. This results in a reliable disinfection of the water. Not only bacteria but also viruses, spores, algae, moulds, yeasts and protozoa including Cryptosporidium and Giardia will be eliminated.

What is AOP by Photodissociation?

The Advanced Oxidation Process (AOP) in the Blue Lagoon SpAOP UV-C is an oxidation process based on OH-radicals. The 185 nm emitted by the UV lamp is absorbed by the water molecules resulting the generation of OH-radicals. OH-radicals are the strongest in water available oxidant and will oxidise organic and inorganic pollutants present in the water. The 185 nm wavelength based AOP process improves the water quality by improving the visibility and smell of the water.

Because of the disinfection of the water by the 254 nm wavelength and the oxidation of the water by the 185 nm wavelength makes the Blue Lagoon SpAOP UV-C the perfect addition to your Spa water treatment process.

