

# Blue lagoon

[www.blue-lagoon-uvc.com](http://www.blue-lagoon-uvc.com)



• **Ioniser and Ultra Violet sterilizer in 1**  
• **40 or 75 Watt UV-C for swimming pools up to 40.000 or 75.000 L**

# UV-C Ionizer

This revolutionary combination of UV-C and copper electrolysis means you can have a chlorine-free pool! With this Blue Lagoon UV-C Ionizer unit as part of your pool system you can keep your pool water fresh, crystal-clear and above all hygienically clean, without having to put chlorine or other chemicals in the water. Chlorine ensures that harmful bacteria cannot develop in your pool. Unfortunately chlorine also has unpleasant side-effects on the people who swim in the chlorinated water. Examples are irritated skin, stinging, blood-shot eyes, irritation of the bronchial tubes and of course the penetrating smell of chlorine. Children in particular do not realise that they must not get chlorinated water in their eyes because it will irritate them after swimming. Children with asthma also suffer greatly from chlorinated water, so that swimming can be less enjoyable for them. With the Blue Lagoon UV-C Ionizer this is completely a thing of the past.

Is the maintenance of your pool water time-consuming? With a Blue Lagoon UV-C Ionizer in your pool you will no longer have to add chlorine or other chemicals every day. With the Blue Lagoon UV-C Ionizer you test your pool water once every two weeks. You then only need to test your water's value with the simple test strip supplied. And if necessary adjust the device to the correct level.

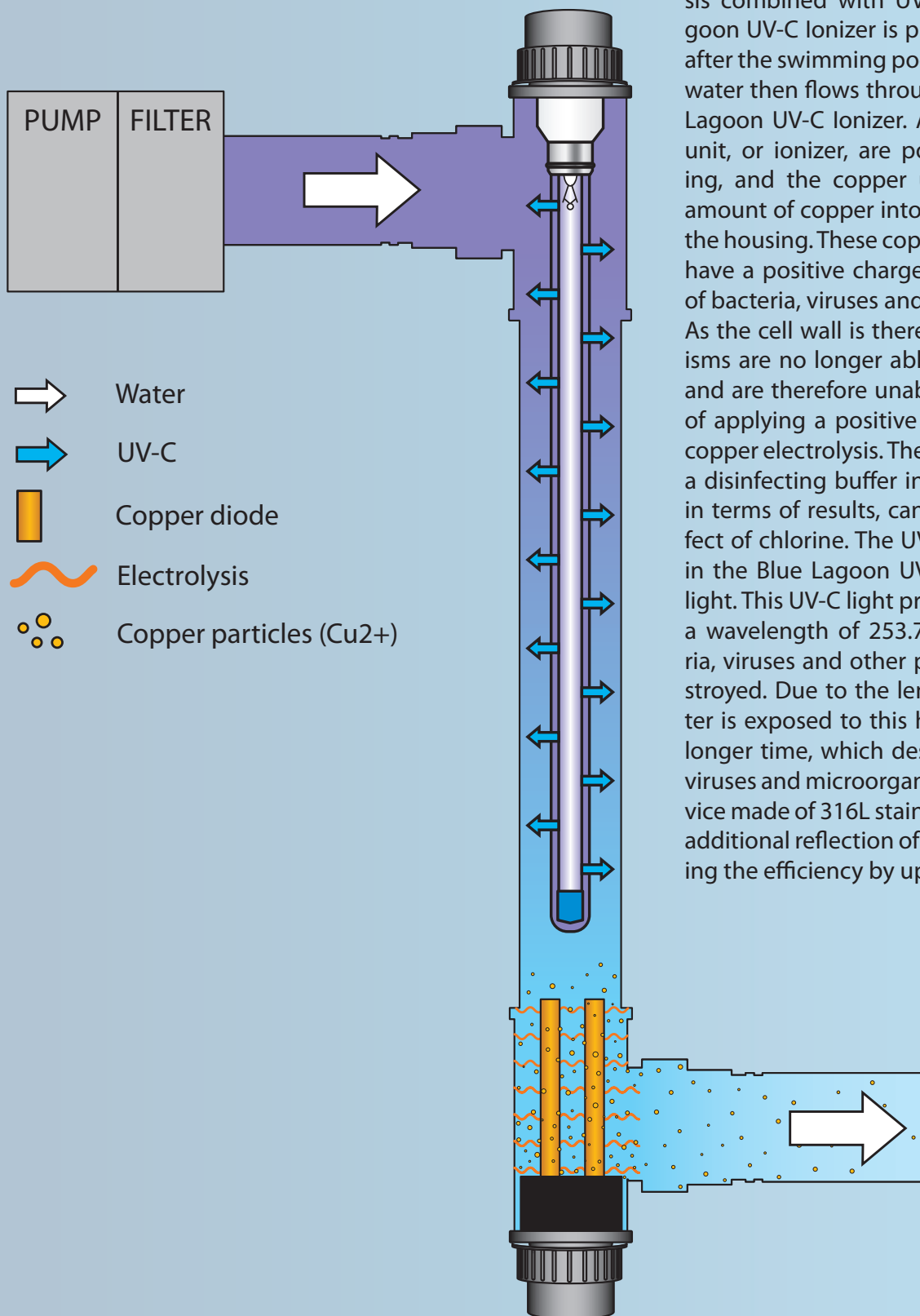
Other ionizer systems dose approximately 2 ppm copper in your pool water. With Blue Lagoon UV-C Ionizer, a dose of 0,7 ppm will be enough to fully and safely disinfect your pool.






#### **Advantages of UV-C treatment:**

- Ensures fresh, clean and clear water
- Disinfects water efficiently and safely
- Protects your pool from germs
- Keeps the formation of mould, bacteria and algae under control
- No more need for chlorine and other chemicals
- More environmentally-friendly than traditional methods

#### **Characteristics of the Blue Lagoon UV-C Ionizer:**

- Enables swimming without the use of chlorine
- Up to 80% disinfection by UV-C
- Up to 20% disinfection by copper electrolysis
- 316L stainless steel housing yields up to 35% more UV-C as a result of reflection
- UV-C lamp and copper unit are sufficient for 2 swimming seasons
- Easy installation and maintenance
- 2-year guarantee with respect to manufacturing faults
- The Blue Lagoon UV-C Ionizer is earthed



-  Water
-  UV-C
-  Copper diode
-  Electrolysis
-  Copper particles (Cu<sup>2+</sup>)

### Operation

The Blue Lagoon UV-C Ionizer will clean the water in your swimming pool through copper electrolysis combined with UV-C radiation. The Blue Lagoon UV-C Ionizer is placed on the piping system after the swimming pool filter. The swimming pool water then flows through the housing of the Blue Lagoon UV-C Ionizer. A UV-C lamp and a copper unit, or ionizer, are positioned within the housing, and the copper unit discharges a minimal amount of copper into the water flowing through the housing. These copper ions (Cu<sup>2+</sup>) in the water have a positive charge and destroy the cell walls of bacteria, viruses and other primitive organisms. As the cell wall is thereby damaged, these organisms are no longer able to take up any nutrients, and are therefore unable to multiply. The process of applying a positive charge to copper is called copper electrolysis. The copper in the water acts as a disinfecting buffer in your swimming pool and, in terms of results, can be compared with the effect of chlorine. The UV-C lamp that is positioned in the Blue Lagoon UV-C Ionizer generates UV-C light. This UV-C light produces UV-C radiation with a wavelength of 253.7 nm, ensuring that bacteria, viruses and other primitive organisms are destroyed. Due to the length of the device, the water is exposed to this high level of radiation for a longer time, which destroys the DNA of bacteria, viruses and microorganisms. The interior of the device made of 316L stainless steel, which ensures an additional reflection of the UV-C radiation, increasing the efficiency by up to 35%.