

COPPER ELECTROLYZER



Blue Lagoon Copper Electrolyzer



The Blue Lagoon Copper Electrolyzer ensures clean and healthy pool water through copper electrolysis. It is recommended to use the Copper Electrolyzer in combination with a UV-C disinfection system for optimal results.

Operation

The Blue Lagoon Copper Electrolyzer will disinfect the water in your swimming pool through copper electrolysis. We recommend to use this device in combination with a UV-C device for the best result. The Blue Lagoon Copper Electrolyzer will, before the water goes back to the pool, be mounted between the pipes. The swimming pool water then flows through the housing of the Blue Lagoon Copper Electrolyzer. A copper unit, or Electrolyzer, is 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^{2+}) in the water have a positive charge and destroy the cell walls of algae, bacteria, viruses and other microorganisms. 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. Thanks to the Blue Lagoon Copper Electrolyzer, your swimming pool water will be disinfected efficiently and safely and the quality of your water will remain excellent.

Pending EU regulations or conditional approval, national regulations apply to the trade and use of copper-containing products. The copper used in these units complies with the REACH registration. It is the sole responsibility of the buyer to inform himself/herself about applicable local regulations regarding the use of (and trade in) copper for water disinfection.

Advantages of the Blue Lagoon Copper Electrolyzer

- The copper unit will last for two swimming seasons
- Easy installation and maintenance
- Ideal for use in combination with UV-C
- Made in the Netherlands

Blue Lagoon Copper Electrolyzer Technical



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Art. number	BE05752
EAN	8714404039017
Max. pressure	1 bar
Max. flow	13.000 L/h
Diameter unit Ø	59 mm
Copper Ionizer	0,7 ppm
Length unit	34 cm
Diameter in-outlet Ø	48/50 mm
Housing material	PCASA
Electronic ballast	230 V AC 50 Hz
Weight	2,32 Kg
Quantity full pallet	60 pcs



What is the disinfection mechanism of copper ionization?

Electrically charged copper ions (Cu^{2+}) in the water search for particles of opposite polarity, such as bacteria, viruses and fungi. Positively charged copper ions form electrostatic compounds with negatively charged cell walls of microorganisms. These compounds disturb the cell wall permeability and cause nutrient uptake to fail. As a result, bacteria are no longer able to multiply and eventually die. The ions remain active until they are absorbed by a microorganism.

Spare parts

C	B290076	Control Box for Copper Electrolyzer
D	3902041	O-ring NBR 56x3
E	B212013	Housing Blue Lagoon Spa UV-C / Copper Electrolyzer
F	B212014	Set (2pcs) 3-way connection 50 mm
	B212015	Set (2pcs) 3-way connection 48 mm
G	E801509	O-ring 3-way connection NBR 53x4,5
K	B290010	Nut 70 mm x 33.5 mm for end cap ABS Blue
X	B290029	Copper set base + cable connector
Y	B200020	Test strips for Ionizer (50 strips)

