

COPPER - SILVER IONIZATION SYSTEM FOR PUBLIC POOL & WATER PARK



A public swimming pool, whether a bathing, a leisure sports, or even a competition area, must be above anything else clean, worry-free, and relaxing.

Skin rashes, irritated eyes and respiratory problems, all related to the intensive use of chlorine/bromine in the standard water treatment process, are too often considered unavoidable. Using a copper-silver ionizer from H₂O Biotech allows the reduction of chlorine concentration to the minimal government standard.

Copper and Silver Ionization is a proven natural technology for the elimination of algae and aquatic pathogens.

- Powerful bactericide (E. coli, Legionella, etc.) and algacide
- Not affected by temperature
- Non-corrosive
- Does not destabilize the water pH
- Minimal maintenance
- Compact, easy installation



Pristine water means...

- No more “red-eyes”, skin irritation and breathing problems
- No more damage to hair or bathing suits
- Reduction of unpleasant odors and taste

A savings driver!

- Substantial reduction of the use, transport, storage and handling of chemicals
- Extension of the useful life of the swimming pool coating
- Corrosion reduction on the structures
- Reduced ventilation and associated costs



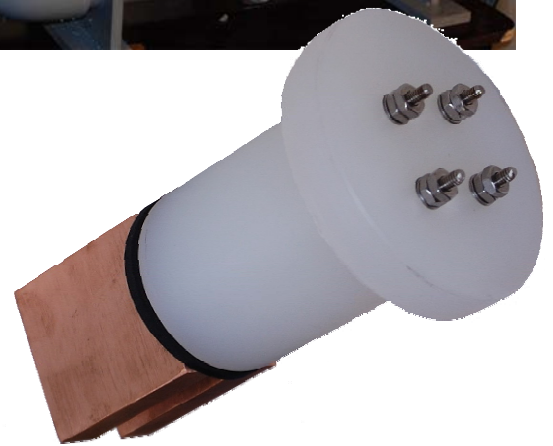
OSHA

Other organizations also endorse the use of copper-silver ionization in water as a preventive method.

HOW IT WORKS

H2O Biotech Copper - Silver Ionization Systems work by electrolysis. Electrolysis separates chemically bonded elements in electrodes by passing an electric current through them. The system consists of a reaction chamber and a control box.

- The Ionization Chamber contains up to 12 sets of electrodes made of a copper-silver alloy;
- Water flows between the electrodes and picks up electrically charged ions of copper and silver that are released through electrolysis as Cu⁺⁺ and Ag⁺;
- The Cu⁺⁺ and Ag⁺ ions freely spread out everywhere in the pool and stay there;
- Since the external membrane of algae and bacteria are naturally negatively charged, they attract the copper and silver ions;
- Copper and silver are active against a wide range of bacteria, fungi, algae and viruses, including pathogenic organisms, such as Legionella, found as pollutants of water systems.
- The concentrations of chlorine or bromine are thus reduced to the minimum required by law, and this in all safety for bathers and pool equipment. Algae and bacteria will be destroyed, and no other chemicals will be needed except, as necessary, some pH- stabilizer.



Datasheet

CONTROL BOX

Power: 110-240 VAC 50/60 Hz, 5A

Output: 0-42 VCC, max. 160W

Ripples: 300mV peak-to-peak

IONIZATION CHAMBER

Material: PVC (CPVC available)

Inlet/outlet: 2" or 3" (NPT, BSP, flanged...)

Maximum pressure: 65 PSI

Maximum temperature: 60°C / 140°F

Electrodes servicing: Hingelok coupling

WARRANTY

Two years for replacement of defective parts (excluding electrodes)