



sugar.valley

SISTEMAS ELECTRÓNICOS  
PARA EL TRATAMIENTO DE AGUAS



bionet

Salt electrolysis + Cu/Ag ionization  
+ *Cu/Ag*



# bionet

BIONET system incorporates besides in the same electronic box SALT ELECTROLYSIS and the ionization of Copper and Silver, Their that utilized jointly they achieve an integral water processing of chlorination-floculation-algae elimination without chemical products.

## Salt electrolysis + Cu/Ag Ionization

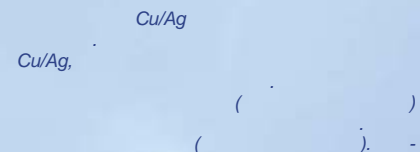
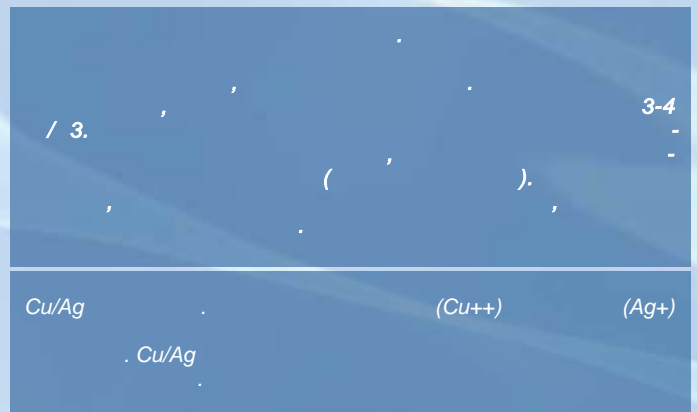
Since many years ago pool s professionals knows that water treatment of a pool is not limited only to the addition of chlorine. To obtain an acceptable quality of water must be added floculants, anti-algae and winter products. ELECTROLISIS SALINE BIONET systems are not limited only to generate chlorine with a saline electrolysis, besides they incorporate a system of floculaci n and anti-algae that permits, now finally, to eliminate the chemical products for the swimming pool water treatment. The BIONET contributes a new concept for the processing of your pool, improving the quality of the water, avoiding the manipulation of chemical products and simplifying the maintenance tasks.

**Salt electrolysis.** Salt electrolysis systems generate chlorine from the common salt dissolved in the water. The necessary salt for their operation should be added to the pool in a concentration of 3-4 Kg/m3. The chlorine generated destroys the organic matter and present pathogens in the water, being transformed again in sodium chloride (common salt). The products break down, they act and they are regenerated again. Chlorine produced by electrolysis doesn t damage bather s health.

**Cu/Ag Ionization.** Principle of operation is based on the capacity of the copper ( $Cu^{++}$ ) and the silver ( $Ag^{+}$ ) as floculant and antibacterial agents. Cu/Ag is the more powerful ANTI LEGIONNAIRE'S DISEASE SYSTEM.

Jointly a Cu-Ag IONIZER enormously powers the efficacy of the salt electrolysis, permitting that the antibacterial and algicide power of the Cu-Ag ionization system be completed by the hipoclorite generation of the electrolysis system, acting jointly in a free and natural cycle without the addition of chemical products.

+ Cu/Ag





## CARACTERISTIQUES

### Optional equipment included in the box

#### pH CONTROL *pH*

All complements for an accurate pH water control (Components: pH measurer inside the same electronic box, pH probe, probe support and pH buffers - Optional Output to increase pH or increase / decrease pH).

*pH-*

(*pH*).

*pH*

*pH-*

#### REDOX CONTROL *REDOX*

On-line REDOX (mV) measurement and automatic titanium cell activation when reading is lower than programmable set point (Components: REDOX measurer inside the same electronic box, REDOX probe, probe support, Buffers).

*Redox-*

(*Redox*)

#### FREE CHLORINE CONTROL

On-line Free Chlorine (ppm) measurement and automatic titanium cell activation when reading is lower than programmable set point (Components: Free Chlorine measurer inside the same electronic box, amperometric Clprobe (Cu/Pt), transparent probe support, rotameter).

(*??*)

(*(Cu/Pt)*).

#### SALT CONCENTRATION CONTROL

On-line salt measuring using the conductivity value (CD). A 220V output is available to connect our Salt Automatic dosing system.

(*.*) 220

### Serial equipment

#### 1 ELECTRONIC BOX

Reduced size fireproof ABS plastic (255x200x124 mm). Low level of salt and lack of flow alarms incorporated. Selfcleaner change of polarity temporization can be programmed to prolong life of the cell up to 15.000 hours. WORKING HOURS COUNTER.

(255 200 124 )

#### ELECTROLYSIS AMPERS INTENSITY CONTROL

Microprocessor of 16bits for the control of the chlorine production intensity. The display shows the production of exact chlorine/hour. This system permits a stable production of chlorine and to work with any concentration of salt in the water, even seawater.

16-

#### 2 SELF-CLEANER CELL ELECTROLYSIS

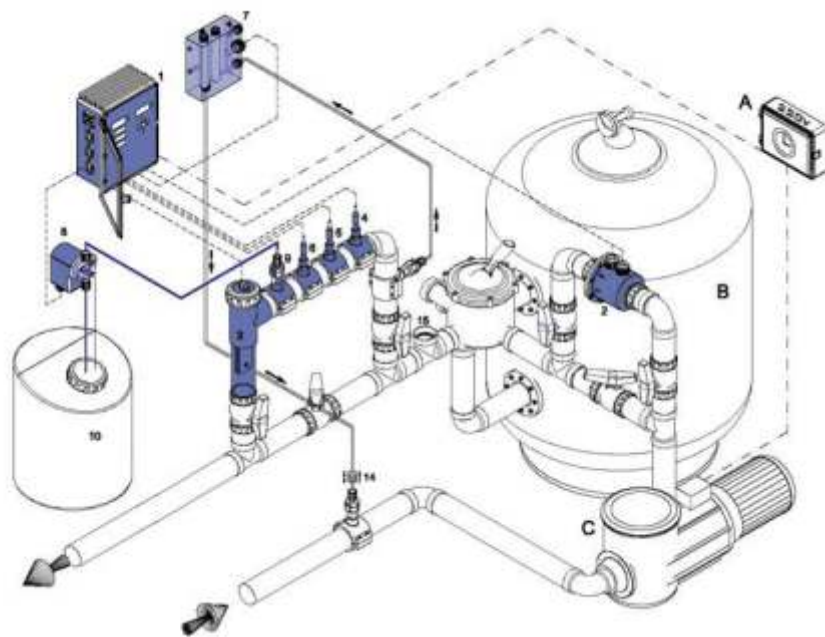
Anode and cathode coated. It allows to produce chlorine even during the self-cleaner process.

#### 3 FLOCCULATION/ALGICIDE SYSTEM

ABS transparent Electrode support for on-line generation of flocculant and algicide. It has electrodes Cu/Ag and is resized in dependence of water volume. ANTILEGIONELLA SYSTEM.

Cu/Ag.





Model	Indoor private swimmingpools and outdoor up to 28°C 28°C
BIO16	65 m <sup>3</sup>
BIO22	110 m <sup>3</sup>
BIO33	200 m <sup>3</sup>
BIO50	300 m <sup>3</sup>
Available models for higher volumes and automatic control for pH / Redox / Free Cl / Conductivity	
	pH/ / -
	/ .
	« ».



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Distributeur / Distributor

