

BIONET

ELECTROLYSIS AND IONIZATION (Cu/Ag)

PUBLIC SWIMMING POOLS

REMOVABLE
TOUCH
SCREEN
INCLUDED



Non contractual photography

PUBLIC SWIMMING POOLS

Public swimming pools*	Model	Description	Components
120 m ³	BIO 85	Salt electrolysis 85 g Cl ₂ /h + Flocculation via Cu/Ag ionization	Electronic unit / Titanium cell / Transparent PVC support 110 mm / Ionization chamber 8e
250 m ³	BIO 125	Salt electrolysis 125 g Cl ₂ /h + Flocculation via Cu/Ag ionization	Electronic unit / Titanium cell / Transparent PVC support 110 mm / Ionization chamber 10e
350 m ³	BIO 175	Salt electrolysis 175 g Cl ₂ /h + Flocculation via Cu/Ag ionization	Electronic unit / Titanium cell / Transparent PVC support 110 mm / Ionization chamber 12e
500 m ³	BIO 250	Salt electrolysis 250 g Cl ₂ /h + Flocculation via Cu/Ag ionization	Electronic unit / Titanium cell / Transparent PVC support 140 mm / Ionization chamber 12e
700 m ³	BIO 350	Salt electrolysis 350 g Cl ₂ /h + Flocculation via Cu/Ag ionization	2 electronic units / 2 cells titanio / 2 transparent PVC supports 110 mm / Ionization chamber 12e
1000 m ³	BIO 500	Salt electrolysis 500 g Cl ₂ /h + Flocculation via Cu/Ag ionization	2 electronic units / 2 cells titanio / 2 transparent PVC supports 140 mm / Ionization chamber 12e

* equipment dimensioning for public and community swimming pools

$$\frac{[(N^{\circ} \text{ bathers}) \times 10] + [\text{volume m}^3 \times 2]}{\text{filtration hours}} = \text{necessary production of gr/h for public swimming pools}$$



Self
cleaning Cell



Cell
warranty



Polarity change
programming



PVC Transparent
support



Security
sensor included



Cells for
large pools



Redox measurement
and control (rX)



pH measurement
and control



Free chlorine
measurement and
control (Cl₂)

ELECTRONIC UNIT

DESCRIPTION	BIO 85	BIO 125	BIO 175	BIO 250	BIO 350	BIO 500
Intensidad	0-100%					
Salinity	From 3 g of NaCl/l					
Pool Volume m ³	120 m ³	250 m ³	350 m ³	500 m ³	700 m ³	1000 m ³
Display	4.3" TOUCH SCREEN removable screen for remote installation (12 languages)					
Power supply	220V 50/60 Hz					
Output	8-85 A	8-125 A	10-85 A	10-125 A	2 (10-85 A)	2 (10-125 A)
Maximum consumption	680 W	1000 W	1020 W	1500 W	2 x 1020 W	2 x 1500 W
Dimensions	300 x 550 x 250 mm					
Electronic unit	Black anodized aluminum					
Protection cover	Flame retardant plastic black ABS					
Control	Microprocessor 32 bits					
Intensity regulation	Amperage + Voltage					
Ventilation	Forced					
Self-cleaning	Programmable from 1 to 24 h					
Flow control	Flow sensor					
Operating hours counter	Yes, accessible by customer					
Production control	From 0 to 100%					
Alarms	Low conductivity / Lack of flow / dosing pH / excessive pH out of range / ph maximum dosing time					
Salinity test	Conductivity indicator accuracy of ± 10%					
Production control per deck/cover	Configurable production level 0-100% depending on open or closed pool cover					
External signal production	Configurable production level 0-100% depending on any external signal (second analog input)					
Communications	MODBUS / WIFI					
Main control outputs	Filtration control / Lighting control / Heating control					
Additional control outputs	4 additional relay outputs configurable by the user					

HYDROLYSIS CELL

HYDROLYSIS CELL						
DESCRIPTION	BIO 85	BIO 125	BIO 175	BIO 250	BIO 350	BIO 500
Célula hidrólisis	6 titanium plates	10 titanium plates	13 titanium plates	17 titanium plates	2 x 13 titanium plates	2 x 17 titanium plates
Minimum flow	12 m³/h	15 m³/h	15 m³/h	20 m³/h	30 m³/h	40 m³/h
Plates sizes	400 x 90 x 24 mm	400 x 90 x 34 mm	400 x 90 x 38 mm	400 x 90 x 50 mm	2 cells BIO 175	2 cells BIO 250
Cell support material	Transparent PVC plastic					
Cell closure	Threaded for easy cell installation					
Pipe connection diameter	110 mm	110 mm	110 mm	140 mm	110 mm	140 mm
Dimensions millimeters	650 mm x 140 mm		760 mm x 140 mm		2 cells BIO 175	2 cells BIO 250
Cell cable	2 (1 x 35) x 2 m	2 (1 x 50) x 2 m	2 (1 x 35) x 2 m	2 (1 x 50) x 2 m	4 (1 x 50) x 2 m	
Maximum pressure	4 Kg/cm²					
Maximum temperature	Minimum 0° C / Maximum 45° C					

IONIZATION CHAMBER

DESCRIPTION	BIO 85	BIO 125	BIO 175	BIO 250	BIO 350	BIO 500
Number of electrodes	10	12	12	12	12	12
Dimensions (length x Ø)	1 chamber of 6 e + 1 chamber of 4 e	2 chambers of 6 electrodos	2 chambers of 6 electrodos	2 chambers of 6 electrodos	2 chambers of 6 electrodos	2 chambers of 6 electrodos
Connection	2" thread (63 mm)					
Glass material	Transparent ABS					
Electrode material	Electrolytic copper and silver					
Installation	By-pass					