

## EL Salt Electrolysis QuickStart Guide





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## INTRODUCTION

Welcome to the quickstart manual for the EL Salt Electrolysis, a state-of-the-art automatic water treatment device designed to ensure your pool's water remains crystal clear and safe.

1 Installation Wifipool App

2 Connect measuring and control box with WiFi

3 calibration pH and RX

This manual contains the necessary information for installation, troubleshooting and maintenance. Read the entire manual on [www.beniferro.eu](http://www.beniferro.eu) before installing and commissioning the product.

It is possible to have the measuring and control box equipped with accessories of your choice.

## SAFETY

To ensure optimal product usage and prevent accidents, please thoroughly review this manual before installing and using the product. It is imperative to strictly adhere to the instructions for your safety and proper operation of the salt chlorinator. Failure to heed safety warnings could result in severe consequences including serious injury, property damage, and even life-threatening situations.

### General

- Installation personnel must carefully review this manual before proceeding with installation. In case of any improper or mistaken operation, please contact your supplier.
- This appliance is not intended for use by individuals (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless supervised or instructed by a responsible person regarding its safe use.
- Improper installation can create an electrical or chemical hazard, which can result in serious injury.
- Always wear safety gloves and safety glasses when working on the installation.
- If you are not familiar with the pool filter system and dosing equipment:
  - Read the entire installation and operating instructions before using the dosing equipment.
  - Only a qualified installer, center, individual or an authorized dealer can repair this product.
  - never modify anything without consulting your supplier, professional pool contractor.
  - In the event of damaged parts, only use original replacement parts. Failure to do so will void your warranty.
- Maintenance and operation should be performed according to the recommended time and frequency, as stated in the manual.
- Do not install the device in an area where the electronic components of the chlorinator may be damaged by moisture or rain.
- It is recommended to install the water treatment unit in a bypass configuration.



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- Keep the installation and chemicals out of the reach of children. Always wear safety gloves and goggles when working on the installation.
- In case of damaged parts, it is preferable to purchase replacement parts from the manufacturer. Use only original standard parts. Failure to do so will void your warranty.

## Electrical

- Please disconnect all power supplies during installation.
- The electrical installation should be done in such a way that:
  - The electrolysis and acid pump cannot operate if the filter pump is not working. This can be done by adding a flow switch/flow controller ZWMX3552-P to the installation or by using the same power line as the filter pump.
  - The electronics, the unit or part of the unit must NEVER be connected to an output of a frequency converter or frequency regulator
- If a frequency converter is used, we recommend to locate it at minimum 3m from the dosing unit, to use a separate electrical circuit for the converter and the salt electrolysis unit and to verify interactions between frequency converter and pH – Redox measurement (verify that pH and Redox do not deviate when switching on-off the convertor).
- All pool equipment external power and adapters must be connected to a power source that has a residual current device 30mA.
- Make sure all equipment and the swimming pool water are properly grounded. The pool pipeline is grounded via an in-line grounding to an independent grounding pole.
- Before conducting any maintenance or operation, ensure the salt chlorinator is unplugged, all machinery is turned off, and the power source is switched off. Simple operation: the unit is very convenient to operate.
- NEVER make any adjustments inside the dispensing equipment.
- There is no sound alarm on our devices, only an alarm on the screen.

## Chemical

- The salt electrolysis must be placed downstream of swimming pool accessories such as heater, UV lamp, filter, etc
- The salt electrolysis unit will generate chlorine and hydrogen gas. Detectors in the unit, will stop production in case an excess of these gases are detected. It is therefore mandatory to install the unit in the direction of the flow. The unit can be installed horizontally or upright (with flow from bottom to top and the electrolysis cell in the direction of the arrow printed in the housing of the cell).
- To ensure the smooth operation of the salt chlorine generator, check the electrolysis cell every three months or after cleaning the filter, whichever comes first.
- Prior to removing the electrolysis cell, ensure the salt chlorinator is closed for 5-10 minutes, and close the inlet and outlet valves.
- After removing the electrolysis cell, inspect for flake-like sediments, debris, or light-coloured layering on the inner surface. Clean with water.
  - If white calcified substances are present on the titanium plate, soak it in kitchen vinegar for an hour or more to remove the calcification material.
  - If water flushing fails to remove deposits, use a plastic brush for cleaning. Avoid using a metal brush.



## Additional notes for product "Box"

In the "Box" Product, acid and chlorine – which can react and form chlorine gas – are next to each other. There are additional safety measures to be taken:

- Secure the box to the ground in an area protected from possible physical impacts (e.g. by a ball) so that the box can never move.
- Close the box with a padlock if children or people with reduced physical, sensory or mental abilities could access the facility (padlock not included in delivery)
- Make sure that the chlorine and acid drums are well closed, with watertight tube passages (level measurement, suction and aeration). The exhaust air from the drum must be carried out outside the box (cable and hole provided in delivery).
- Be careful, open and check the installation regularly. Be careful when opening the box, as chemical gases and liquids can accumulate in the box.
- In case of leaks: stop the installation immediately.
- Follow the installation plan enclosed with the box

## PRODUCT SUMMARY

The table below, outlines various models of salt electrolysis systems for swimming pools, highlighting differences in assembly, control mechanisms, connectivity options, electrolysis rate, pool size compatibility, and additional features such as flow and level switches. These models cater to different preferences and requirements.

Model description	Assembly	Control	Connectivity	Electrolysis Rate	Pool Size	Additional Features
Salt electrolysis EL pre-assembled in box with pH and RX control - Wifi - 20g/h - Pool 60m <sup>3</sup> - with flow switch	Pre-assembled in box	pH and RX control	Wifi	20g/h	60m <sup>3</sup>	Flow switch
Salt electrolysis EL pre-assembled in box with pH and RX control - Wifi - 20g/h - Pool 60m <sup>3</sup> - with flow	Pre-assembled in box	pH and RX control	Wifi	20g/h	60m <sup>3</sup>	Flow and level switch

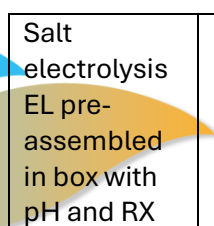


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and level switch						
Salt electrolysis EL DIY kit with pH and RX control - Display - 20g/h - Pool 60m <sup>3</sup> - with flow switch	DIY kit	pH and RX control	Display	20g/h	60m <sup>3</sup>	Flow switch
Salt electrolysis EL DIY kit with pH and RX control - Display - 20g/h - Pool 60m <sup>3</sup> - with flow and level switch	DIY kit	pH and RX control	Display	20g/h	60m <sup>3</sup>	Flow and level switch
Wifi pool set for RX control with salt electrolysis (RX module, peristaltic pump, and accessories) - DIY kit - including EL salt electrolysis 20g/h for a 60m <sup>3</sup> pool	DIY kit	RX control	Wifi	20g/h	60m <sup>3</sup>	Included RX module, peristaltic pump and accessories
Salt electrolysis EL pre-assembled in box with pH and RX control - Display - 20g/h - Pool 60m <sup>3</sup> - with flow switch	Pre-assembled in box	pH and RX control	Display	20g/h	60m <sup>3</sup>	Flow switch



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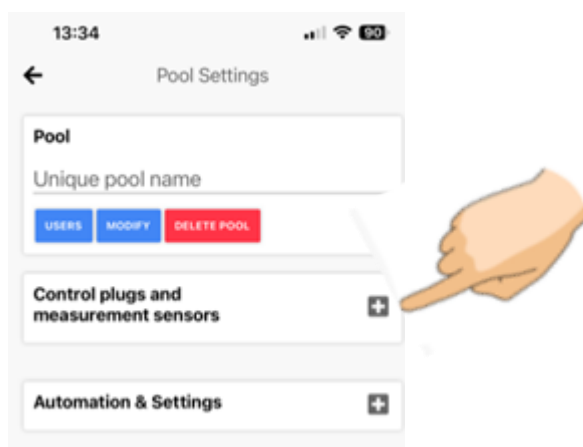
Salt electrolysis EL pre-assembled in box with pH and RX control - Display - 20g/h - Pool 60m <sup>3</sup> - with flow and level switch	Pre-assembled in box	pH and RX control	Display	20g/h	60m <sup>3</sup>	Flow and level switch
Salt electrolysis EL DIY kit with pH and RX control - Wifi - 20g/h - Pool 60m <sup>3</sup> - with flow switch	DIY kit	pH and RX control	Wifi	20g/h	60m <sup>3</sup>	Flow switch
Salt electrolysis EL DIY kit with pH and RX control - Wifi - 20g/h - Pool 50m <sup>3</sup> - with flow and level switch	DIY kit	pH and RX control	Wifi	20g/h	50m <sup>3</sup>	Flow and level switch

The box comes with additional specifications worth noting. The table below outlines these details:

Dimensions: 40x60x45cm
Connect inlet and outlet to 50mm pipe
Included connections for Intex/Bestway of 32 or 38mm or 2-inch thread
Includes a 10L pH container and mounting material for floor, ground, or lawn

## INSTALLATION WIFIPOL APP AND PAIRING

To get started, open the Wifipool application from the App Store or Google Play Store. Once installed, continue to log in with your existing credentials or create a new account if you are a new user. Once logged in, navigate to the option to add a new pool within the application. Click on the icon marked with a plus sign next to 'Plugs and sensors'. Here you will be asked to select "Start Scan" and scan the provided barcode on paper or on the device box.



You will then be asked to choose the WiFi network you want to connect to your pool equipment. Select the correct network from the list displayed. Once pairing is successful, you have the option to continue with or without using a network cable. If you choose to forego the network cable, it is imperative to ensure a stable connection to your WiFi network for optimal performance. The automations will automatically appear in your list. You can read more about automations in the Wifipool App and Simple Device Manual and in the full product manual.

## CALIBRATION

Once you've successfully paired your device you can press the control plug and tab "Calibration". Simply follow the instructions on your screen and after that you're ready to use your device.

Read the manual "Wifipool app and simple devices", for complete instructions.

