SALTIONIC IN-LINE

SALT CHLORINE GENERATOR

Smart, Safe and Efficient Pool Disinfection

NEW PRODUCT

AnTech
"Water Control Technologies"

Salt Ionic In-Line Salt Chlorine Generator

Product Overview

SALT IONIC INLINE is an advanced salt electrolysis system designed to deliver high efficiency, operational safety, and sustainable operating costs in water disinfection processes.

By converting the salt added to the pool into free chlorine through in-line electrolysis, it provides precise and controlled disinfection at the required levels.

With its adjustable production capacity, SALT IONIC INLINE adapts to varying operational requirements and ensures continuous, balanced, and effective hygiene in swimming pools.

Continuous and controlled chlorine production ensures stable water quality, minimizes chemical fluctuations, and enhances user comfort. The optimized operating principle enables more predictable and manageable maintenance processes while contributing to reduced long-term operating costs.

SALT IONIC INLINE is engineered to deliver high performance, extended service life, and reliable operation when installed correctly and operated under appropriate conditions.

Main Features

Features	Details
Compact Design	The control unit and electrolysis cell can be easily connected via a socket-type structure. It enables quick installation and servicing.
Plug & Play System	Its user-friendly design enables easy commissioning and minimizes installation time.
In-Line Chlorine Production	Chlorine is generated within the system via salt electrolysis, eliminating the need for chemical storage.
Adjustable Production Capacity	Chlorine production is optimized according to pool requirements with 10-level production adjustment.
Boost (Turbo) Mode	Provides rapid disinfection with a 10% increased capacity when needed. Boost duration can be monitored on the display.
Automatic Self-Cleaning	Electrodes are cleaned through automatic polarity reversal, extending cell life.
Smart Sensor System	The system is continuously monitored via flow and temperature sensors and salinity measurement to ensure safe operation.
Automatic Safety Protection	The system automatically stops production in case of no or insufficient flow (below 50 L/min) or when the water temperature is outside the specified limits (8–45°C). When flow and temperature return to normal ranges, the system automatically resumes operation from where it stopped. In case of power interruption, the device continues operating in the previous mode without user intervention when power is restored.
Audible Warning System	Operating status, faults, and warnings are audibly indicated via a built-in buzzer.
RGB Status Indicator	Operating status and warnings can be easily monitored via LED color indicators.
Digital User Interface	Provides ease of use with a 3-digit display and control buttons.
Bluetooth Connectivity	Enables monitoring and control via a mobile application
Mobile App Support	Additional data not displayed on the device screen can be monitored via the mobile application.
Silent & Safe Operation	Eliminates the need for chemical handling and dosing, ensuring safer operation.
Low Operating Cost	Reduces chemical consumption, providing long-term economic advantages.
Durable Cell Structure	Designed for durability up to 5 bar pressure, ensuring long service life and ease of maintenance.
Easy Installation & Service	Connection parts can be hand-tightened, and the cell can be replaced without removing it from the pipeline.
Environmental Resistance	Protected against water splashes with an insulated structure (IP65) and can operate safely up to 50°C ambient temperature.

Model Options

- **Model Options**

The device is available in two models with production capacities of 10 g/h and 20 g/h. When Boost (Turbo) mode is activated, the production capacity increases by 10%.

Feature	SI INLINE 10GR	SI INLINE 20GR
Chlorine Production Capacity	10 g/h	20 g/h
Recommended Pool Volume	20 – 50 m^3	40 – 100 m^3
Device Supply (Input)	24 VDC	24 VDC
Device Current	Max. 2.3A (Current Controlled)	Max. 4.6A (Current Controlled)
Power Consumption	Max. 55W	Max. 110W
External Power Supply (Adapter)	100 – 240 VAC / 50–60 Hz / 3A	180 – 240 VAC / 50–60 Hz / 5A

- **Chlorine Production Levels**

The device offers 10 adjustable chlorine production levels. Users can manually set the chlorine output according to the pool's required chlorine demand.

- **Boost (Turbo) Chlorination Mode**

The device can be operated in Boost (Turbo) mode for temporary increased chlorine production at intervals of 3, 6, 9 ... up to 21 and 24 hours.
The remaining Boost time is displayed on the device screen (e.g., "6h").

- **Cell Structure**

- The cell and unions are designed to be hand-tightened; no tools or wrenches are required for installation or removal
- The cell housing is reinforced with a fin structure and is resistant up to 5 bar pressure.
- The cell can be replaced without removing it from the pipeline.
- Chlorine production automatically stops when water flow is interrupted.
- The system includes automatic polarization for improved chlorine production efficiency.
- Automatic self-cleaning function extends the lifespan of titanium plates, ensuring long-term and efficient operation.

- **Sensor System**

The device is equipped with the following sensors:

- Bidirectional flow sensor
- Temperature sensor
- Salinity measurement is automatically performed via the cell plates

These sensors are automatically controlled by the system to ensure safe operation and optimize production efficiency.

- **User Interface**

The device features a 3-digit digital display and 4 control buttons. All settings, mode selections, and status monitoring can be easily managed via this interface.

- **RGB Light Indicator**

Integrated RGB LED indicators visually communicate device status, operating modes, and alarm notifications to the user.

- **Audible Warning System**

A built-in buzzer provides audible notifications for operating status, errors, and warnings.

- **Bluetooth & Mobile Application Support**

The device can be controlled via the Antech Mobile Application through its built-in Bluetooth module.
Through the mobile app, additional operational data not shown on the device display can be monitored, and the system can be controlled remotely.

- **Protection & Safety Features**

- IP65 protection against water splashes due to insulated housing design
- Safe operation up to 50 °C ambient temperature
- Chlorine production automatically stops when water temperature is outside 8 °C – 45 °C range or when no water flow is detected

- **Water Quality & Recommended Operating Conditions**

For optimal performance and efficient operation, pool water should be maintained within recommended parameters.

Parameter	Recommended Range
Salt Level	3000 – 5000 ppm
pH	7.2 – 7.6
Water Temperature	20 – 30 °C
Total Alkalinity	80 – 120 ppm
Stabilizer (CYA)	30 – 70 ppm

Note: Low salinity, high scaling (limescale), unbalanced pH levels, and insufficient water circulation may negatively affect device performance.

Alarm Codes

The device notifies the user of potential fault or warning conditions using alarm codes such as E01, E02, etc. The description of each alarm code is provided in the "Alarm Codes and Cell Color Status" section.

Device Alarm Conditions

E01 : Cell or power supply fault
E02 : No flow
E03 : Bluetooth communication fault
E04 : Low salt
E05 : Low water temperature
E06 : High water temperature
E07 : High electronic board temperature

Cell Color Codes

Production inactive, In alarm condition
Production active
Production active, Warning Condition
Boost mode active

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Tip	Code	Description	Potential Cause	Recommended Solution
Alarm	E01	Cell or power supply failure	Power supply fault, cell connection issue	Check the power supply and connections. If the problem persists, contact authorized service.
Alarm	E02	No flow	Pump not running, valve closed, insufficient flow rate (< 50 L/min)	Check the circulation pump and valves. Ensure sufficient water flow (> 50 L/min).
Warning	E03	Bluetooth communication error	Connection lost, device not paired	Re-establish the Bluetooth connection and check the mobile application.
Warning	E04	Low salt level	Insufficient salt concentration	Add the appropriate amount of salt (>3000ppm) to the pool water and ensure it is mixed.
Alarm	E05	Low water temperature	Water temperature below minimum (8 °C)	Increase the water temperature to reach the operating range (8-45°C).
Alarm	E06	High water temperature	Water temperature above maximum (45 °C)	Decrease the water temperature to reach the operating range (8-45°C).
Alarm	E07	High PCB temperature	Insufficient ventilation, high ambient temperature (>50 °C)	Ventilate the environment where the device is located and reduce the temperature.

Type	Color	Description	Possible Cause	Recommended Solution
Status	Red	Production inactive, alarm status	System is in error mode	Check the alarm code and apply the relevant solution.
Status	Green	Production active	Normal operation	No action required.
Status	Yellow	Production active, warning status	Warning condition present	Check the system warning; intervene if necessary.
Status	Blue	Boost (Turbo) mode active	High production mode	The system returns to normal mode after the boost duration ends.

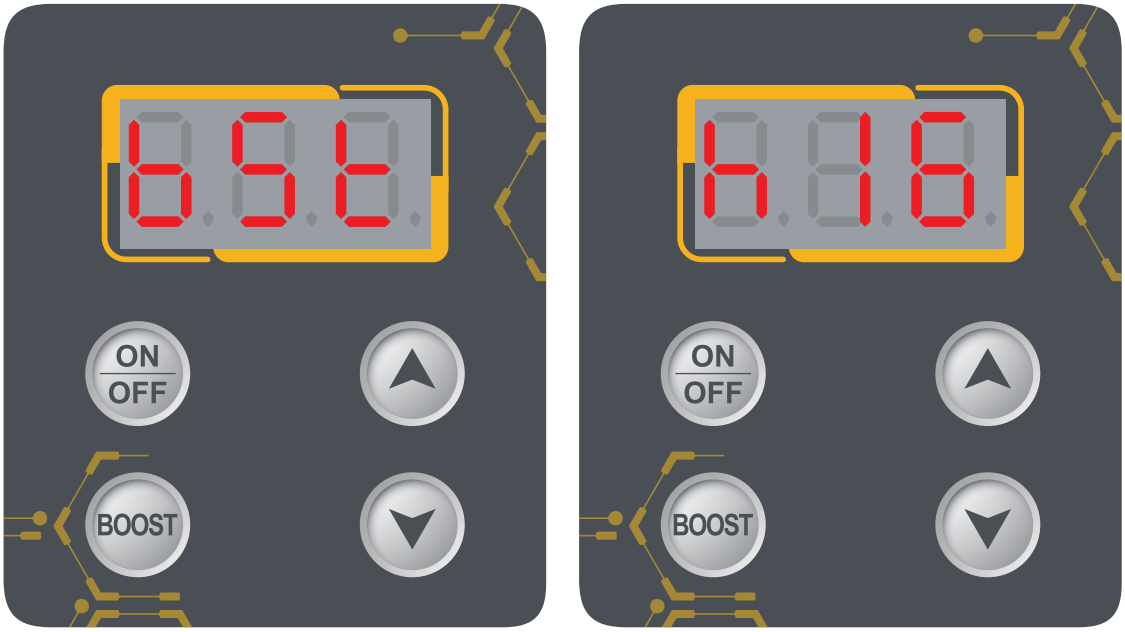
Boost Mode

Boost Mode is activated by pressing the BOOST button located on the control panel while chlorine production is active. To deactivate the mode, it is sufficient to press the same button again. When Boost Mode is activated, the device operates with a 10% increase in production capacity.
When Boost is activated, the main screen is displayed cyclically as BST →hXX: (Example: BST → h24)

When Boost Mode is active, the electrolysis cell compartment is illuminated with a blue LED light.

Note: If production is turned off, "OFF" is displayed on the screen; in this case, Boost Mode cannot be activated unless production is enabled.

Boost Mode Duration:
The operating time of Boost Mode can be adjusted in 3-hour increments using the up and down buttons after the mode is activated.
Selectable durations:
3 hours, 6 hours, 9 hours, 12 hours, 15 hours, 18 hours, 21 hours, 24 hours
The remaining Boost time is displayed in "hXX" format on the screen, and when the time is completed, the device automatically returns to normal operating mode.



Box Contents

Box contents may vary depending on the model. Generally, the following components are included:
- Salt Ionic In-Line Control Unit
- Electrolysis cell
- Power adapter
- Warranty certificate – User manual
- Electrolysis cell tightening wrench
- 50mm PVC connection union set

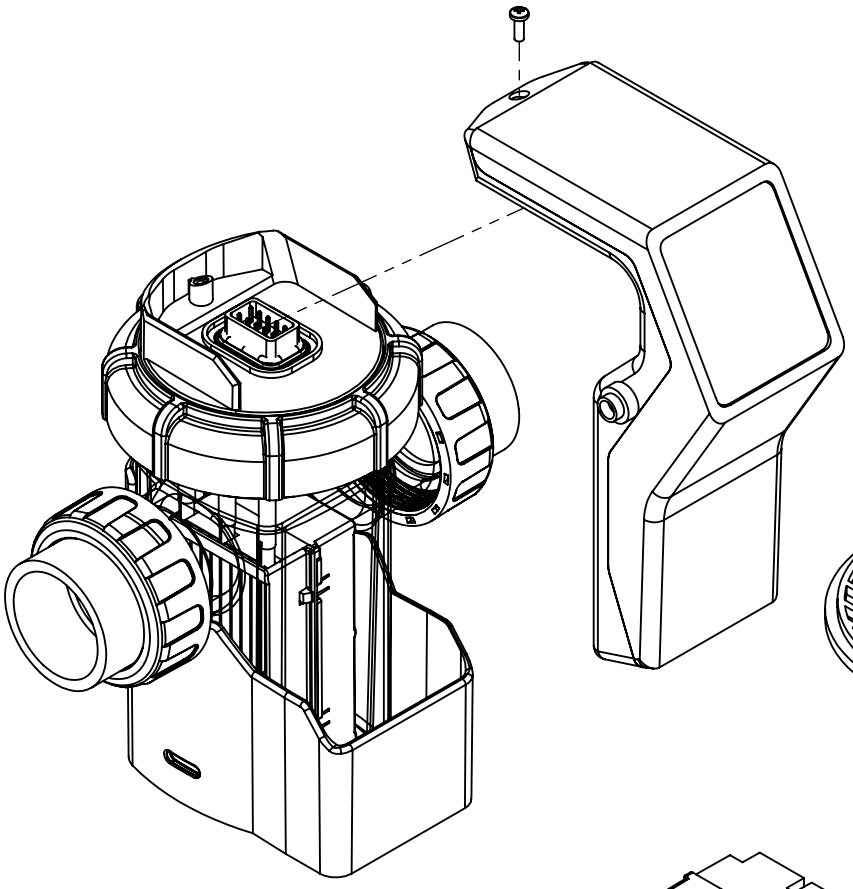
Maintenance Instructions

- Clean the outer surface of the device with a dry or slightly damp cloth.
- Regularly check the electrolysis cell for scale buildup.
- When necessary, clean the cell according to the recommended procedure.
- Check cables and connection points for looseness or oxidation.
- Ensure that the filtration system operates properly.

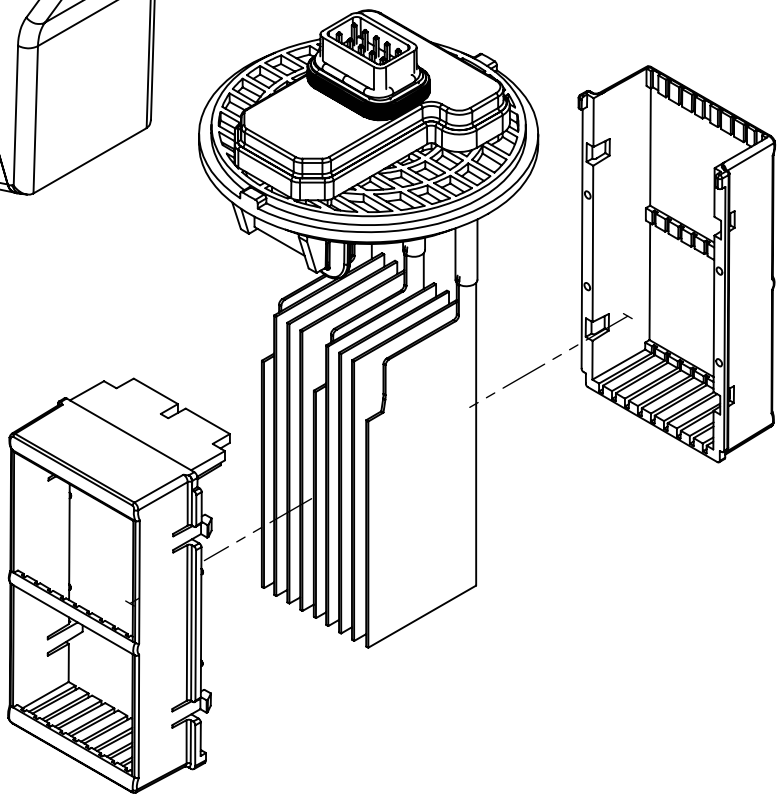
Electrolysis Cell Cleaning

- Disconnect the power supply to the device.
- Stop water circulation.
- Carefully remove the cell.
- If there is scale buildup on the cell surface, apply the appropriate cleaning procedure.
- Rinse the cell and reinstall it.
- After checking for leaks, restart the system.

Caution: Do not use hard objects that may mechanically damage the cell plates.



The device can be easily removed by unscrewing 1 screw located on the device body.



For cell plate cleaning, the cell protective housing is removed by gently pressing the tabs located on the side wall.

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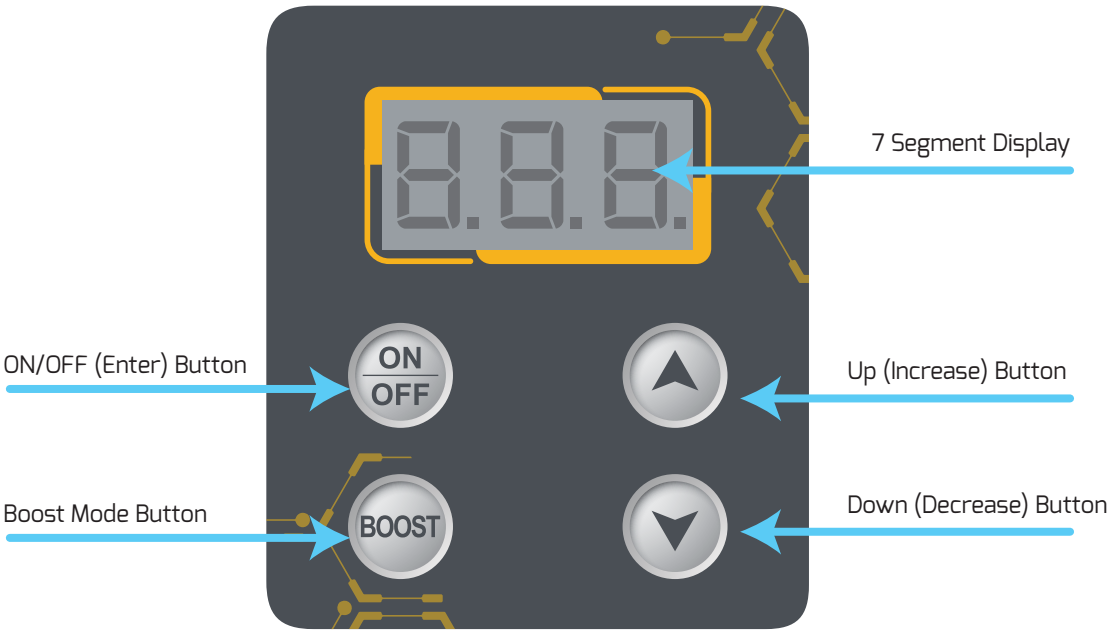
Salt Ionic In-Line Interface Components

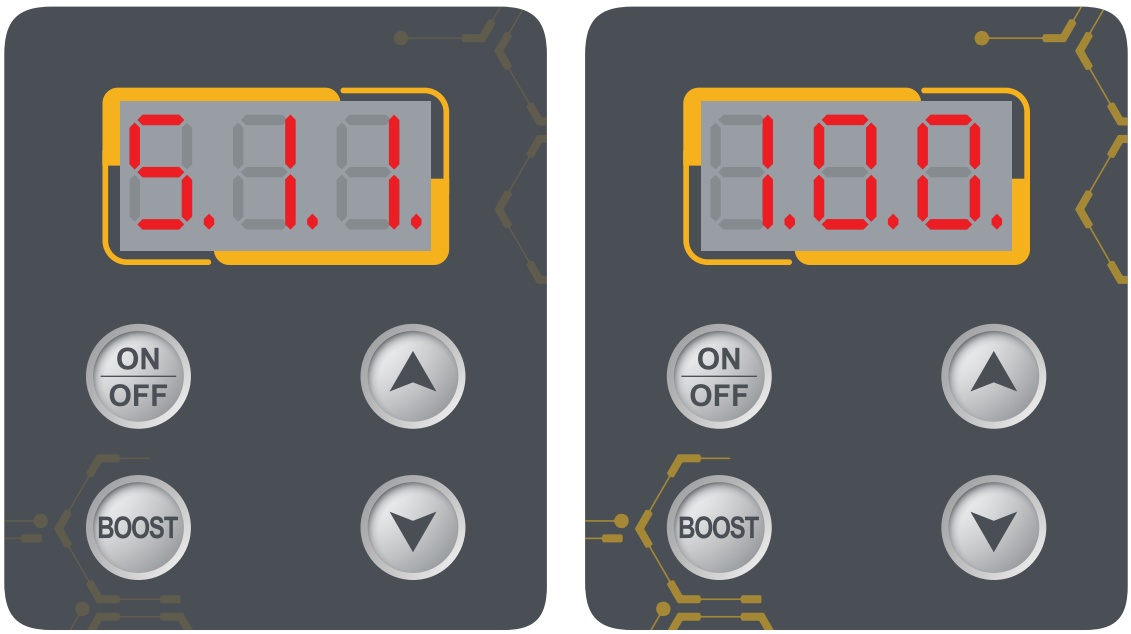


Device Operation and Display Information

Startup Screen

When power is supplied to the Salt Ionic In-Line device, the following information is displayed sequentially:

- The "S.I.I" text is briefly shown, representing the Salt Ionic In-Line device.
- Then the software version number (e.g., "1.0.0") is displayed on the screen.
- After the software version, the device automatically switches to the main screen and becomes ready for normal operation.



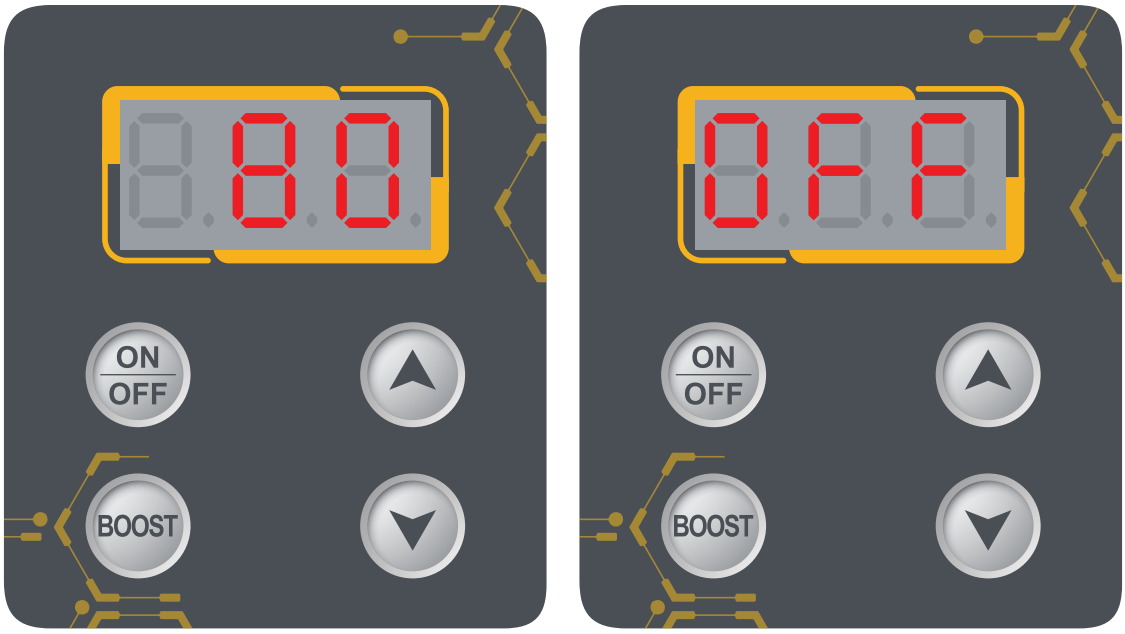
Main Screen Display

The operating status and production level of the device are shown on the main screen:

- If the chlorine production set value (e.g., 80) is displayed, the device is actively producing chlorine.
- If "OFF" is displayed, the device production is stopped.

Production is started or stopped by pressing the ON/OFF button on the front panel.

When production is active, the electrolysis cell compartment is illuminated with a green LED light. When production is stopped, the cell illumination turns off.

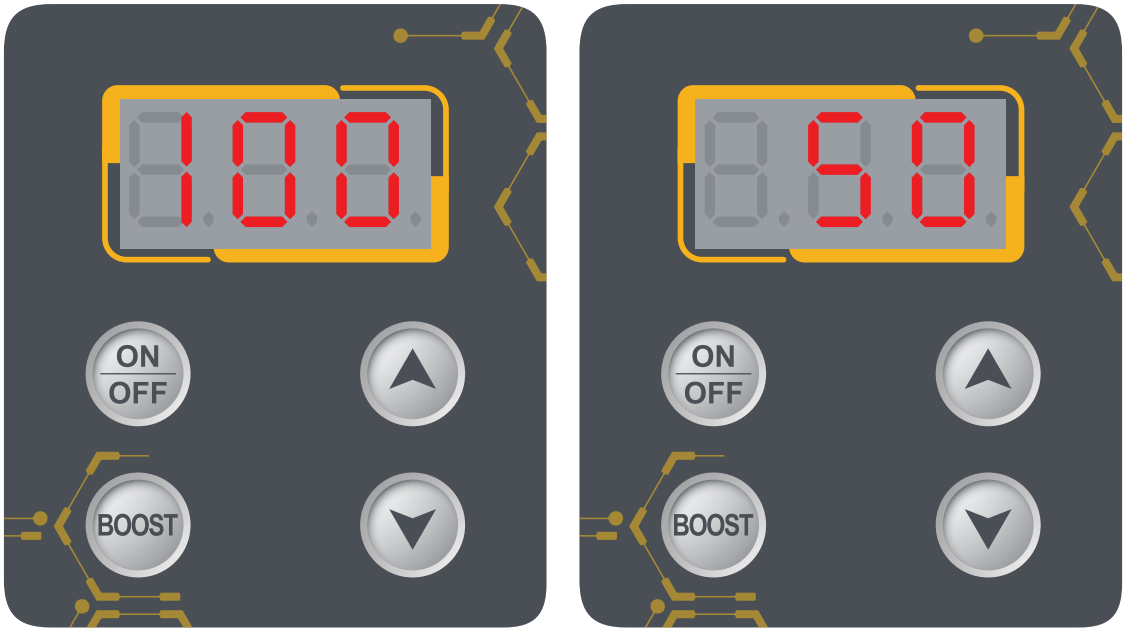


Displaying and Adjusting Production Value

After the production status is shown on the main screen, the device displays the production level numerically in percentage (%). This value represents the set chlorine production capacity of the device.

- Pressing the Up (▲) button increases the production value.
- Pressing the Down (▼) button decreases the production value.
- After adjustment, the new value is automatically saved.

Note: The user can adjust the production value according to the chlorine requirement of the pool.



Long-Term Non-Use

- If the device will not be used for a long period, disconnect the power supply.
- Clean the cell if necessary.
- In areas with freezing risk, take water drainage and protective measures.
- Store the device in a dry environment.

Warranty Conditions

- Warranty conditions are subject to the delivered warranty certificate.
- Faulty installation, improper use, incorrect voltage application, and unauthorized interventions are excluded from warranty coverage.
- Damages caused by chemical imbalance may also be considered outside the warranty scope.

Authorized Service and Support

The following information must be prepared in case of service requirement:

- Product model
- Serial number
- Purchase date
- Error / alarm information encountered
- A brief description of operating conditions

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