Gre SCGPHP60

Gre SCGPHP60 Salt Electrolysis Chlorinator with pH Controller and Dosing Pump User Manual

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Gre SCGPHP60 Salt Electrolysis Chlorinator with pH Controller and Dosing Pump. This integrated system is designed to simplify pool water treatment by generating natural chlorine from salt and automatically regulating pH levels, suitable for pools up to 60 m^3.

2. Safety Information

Please read all safety warnings and instructions carefully before installing or operating the device. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- Always disconnect power before performing any maintenance or service.
- Ensure proper electrical grounding.
- Keep chemicals out of reach of children and pets.
- Wear appropriate personal protective equipment (PPE) when handling pool chemicals.
- Ensure adequate ventilation in the equipment area.
- Do not operate the system if any part is damaged.

3. Product Overview

The Gre SCGPHP60 system integrates three key functions for optimal pool water quality:

- **Salt Electrolysis:** Produces natural chlorine from salt, eliminating the need for chemical chlorine and preventing odors or eye irritation.
- **pH Controller:** Monitors and adjusts the pool's pH level automatically.
- **Dosing Pump:** Delivers pH correction solution as needed to maintain desired levels.

This system is recommended for both above-ground and in-ground pools up to 60 m^3.

Components:

- Control Unit with integrated pH controller and dosing pump.
- Electrolysis Cell (transparent housing with electrodes).
- pH Probe.
- Flow Sensor.
- Piping and connection accessories.

4. Setup Instructions

Careful installation is crucial for the proper functioning of your Gre SCGPHP60 system. Follow these steps for a successful setup:

4.1. System Assembly and Plumbing

1. **Prepare Piping:** Cut and glue the PVC pipes and fittings to create the bypass system as shown in the diagram. Ensure all connections are secure and watertight.
2. **Install Saddle Clamps:** Drill holes in the main pipe for the pH probe and flow sensor. Attach the saddle clamps, ensuring the rubber gaskets are correctly seated to prevent leaks. Secure them with bolts and nuts.
3. **Install pH Probe and Flow Sensor:** Carefully insert the pH probe and flow sensor into their respective saddle clamps. Tighten the connections to ensure they are firmly in place.
4. **Connect Dosing Pump Tubes:** Attach the clear dosing tubes to the pH dosing pump on the control unit and to the injection point on the plumbing. Ensure the tubes are cut to the appropriate length and secured with the provided fittings.
5. **Connect Electrolysis Cell:** Integrate the electrolysis cell into the bypass plumbing. Ensure the flow direction matches the arrows on the cell.

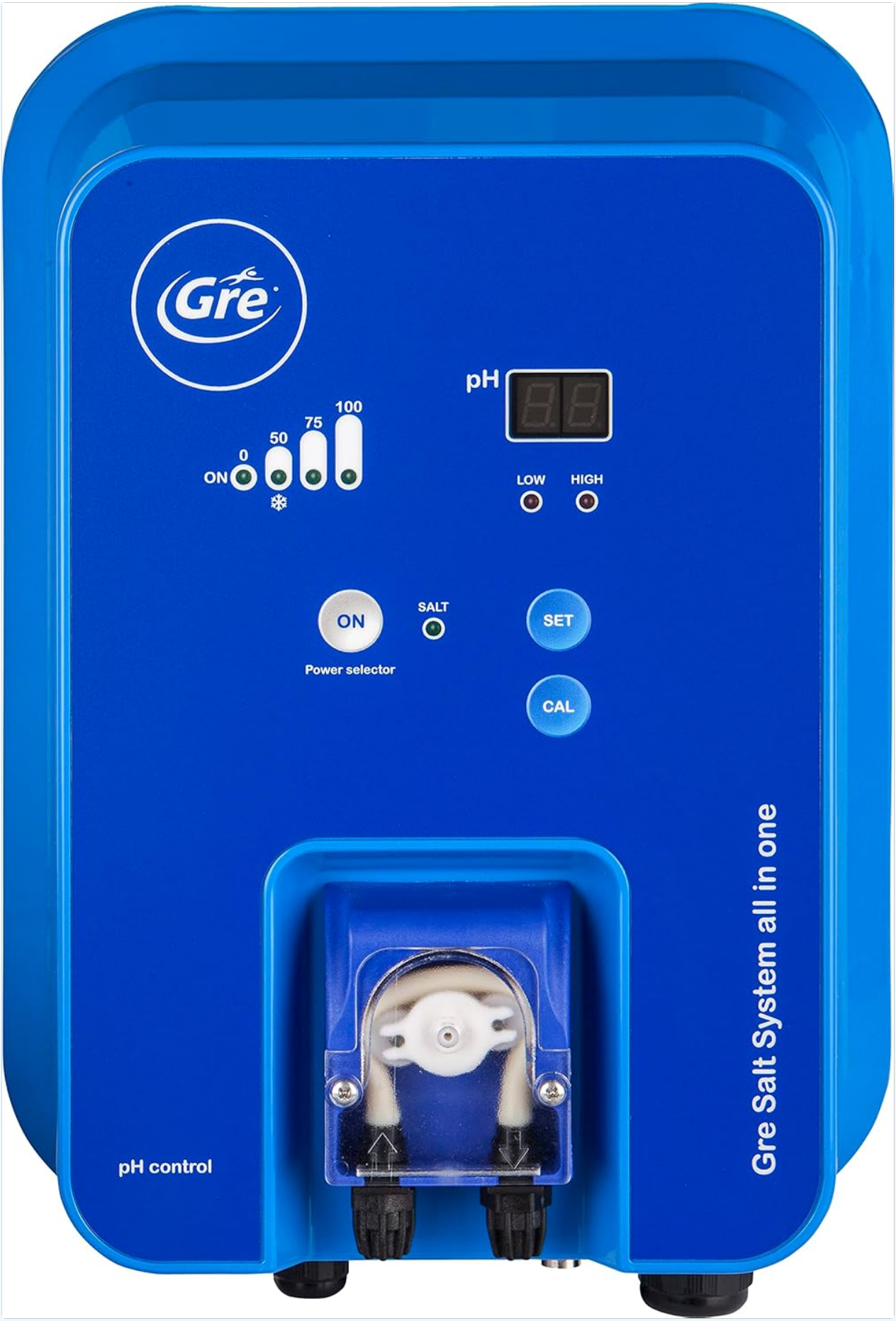
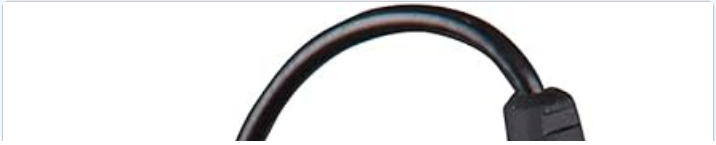


Figure 1: Gre SCGPHP60 control unit and chlorinator cell components laid out for assembly.



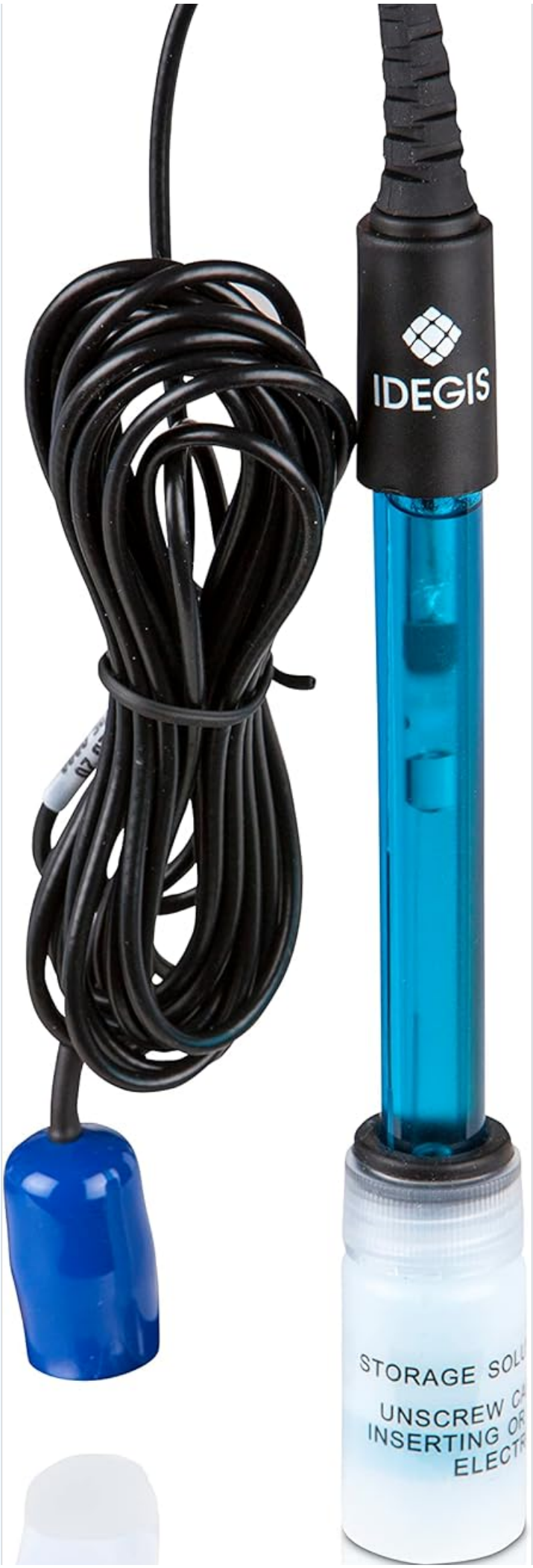

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Figure 2: pH probe with its cable and blue protective cap, ready for installation.

4.2. Electrical Connections

1. **Mount Control Unit:** Securely mount the blue control unit in a dry, protected area, preferably within a pool equipment shed.
2. **Connect Power:** Connect the main power cable to a suitable electrical outlet.
3. **Connect Cell Cables:** Attach the cables from the electrolysis cell to the designated terminals on the control unit. Ensure correct polarity (red to red, yellow to yellow, etc.) and tighten the nuts securely.
4. **Connect pH Probe and Flow Sensor Cables:**Plug the cables from the pH probe and flow sensor into their respective ports on the control unit.
5. **Connect Dosing Pump Power:** Ensure the dosing pump is correctly connected to the control unit.

Figure 3: Close-up of the Gre SCGPHP60 control panel showing the pH display, power selector, salt indicator, and calibration/setting buttons.

4.3. Initial Pool Preparation

1. **Add Salt:** Ensure the pool water has a salt concentration of 4 g/l (grams per liter). This is crucial for the electrolysis process. Maintain a range of 3.2 g/l to 4 g/l for optimal performance.
2. **Ensure Water Flow:** The system requires a minimum water flow rate of 3 m^3/h to operate correctly. Ensure your pool pump is capable of providing this flow.

4.4. Installation Video Guide

Your browser does not support the video tag.

Video 1: This video demonstrates the complete installation process for the Gre SCGPHP60 system, including plumbing, sensor installation, and electrical connections. It provides a visual guide to supplement the written instructions.

5. Operating Instructions

Once installed, the Gre SCGPHP60 system is designed for automated operation. Here are the key aspects of its functionality:

5.1. Powering On and Initial Settings

1. **Power On:** Turn on the main power to the system. The control unit will initiate a self-check.
2. **Chlorine Production:** The system will begin producing chlorine via salt electrolysis. The production rate can typically be adjusted via the control panel to suit your pool's needs.
3. **pH Monitoring:** The pH controller will continuously monitor the pool's pH level. The current pH value will be displayed on the control unit.
4. **pH Dosing:** If the pH deviates from the set point, the dosing pump will automatically inject pH correction solution (acid or base, depending on your setup and pool needs) to restore balance.

5.2. Control Panel Functions

- **Power Selector (ON/OFF):** Activates or deactivates the system.
- **SALT Indicator:** Illuminates to indicate the salt level in the pool. Refer to the specific salt level requirements in the setup section.
- **pH Display:** Shows the current pH value of the pool water.
- **SET Button:** Used to enter the settings menu for adjusting parameters like desired pH level or chlorine production intensity.
- **CAL Button:** Initiates the calibration process for the pH probe.

Refer to the detailed instructions in the full product manual for specific parameter adjustments and calibration procedures.

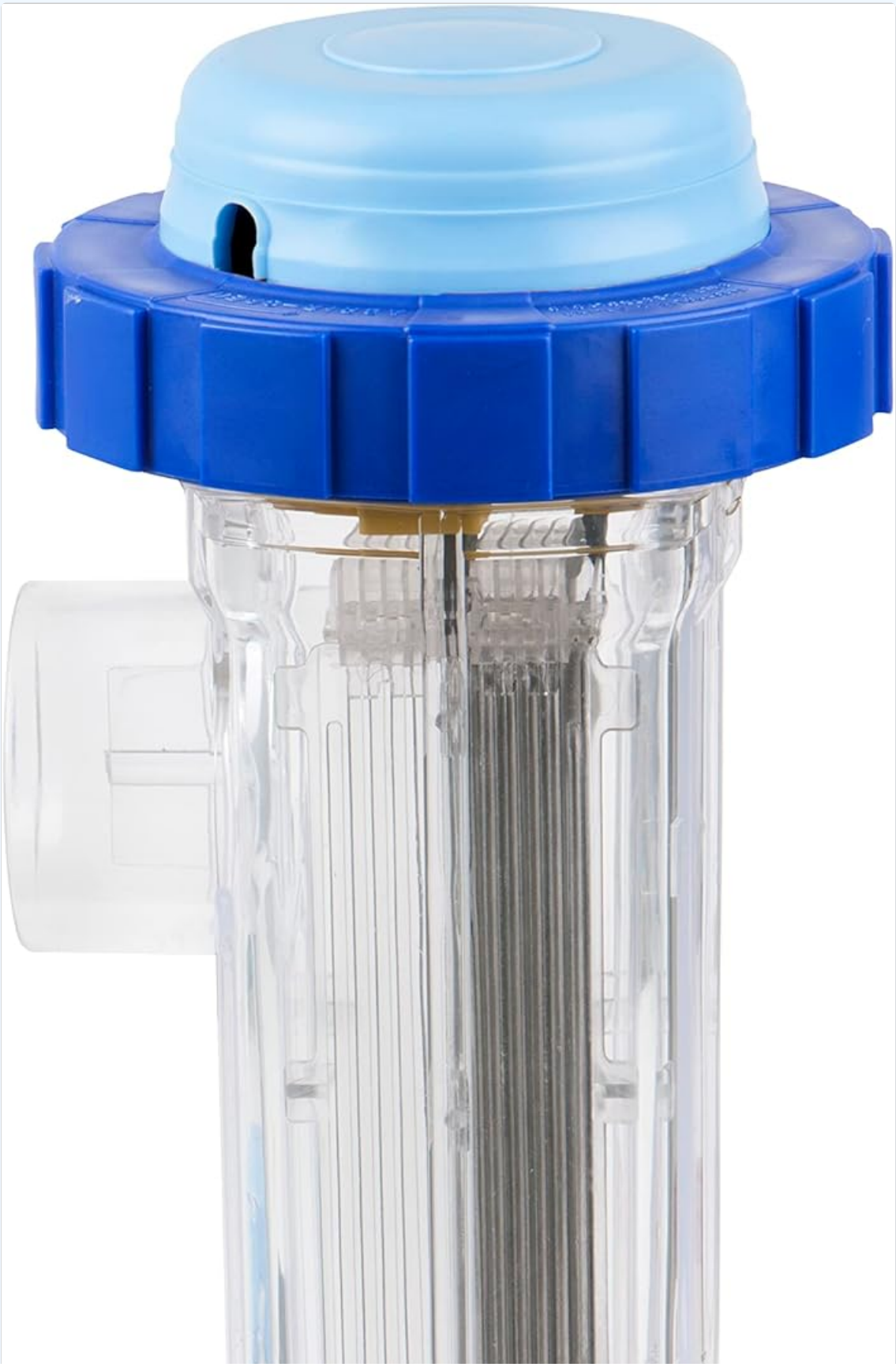
6. Maintenance

Regular maintenance ensures the longevity and efficiency of your Gre SCGPHP60 system.

6.1. Electrolysis Cell Cleaning

The electrolysis cell may accumulate scale over time, especially in hard water areas. Regular inspection and cleaning are necessary.

- **Frequency:** Inspect the cell monthly or as recommended by the system's indicators.
- **Procedure:** Disconnect power. Remove the cell from the plumbing. Clean the electrodes using a diluted acid solution (e.g., muriatic acid) or a specialized cell cleaning product, following the manufacturer's instructions. Rinse thoroughly with clean water before reinstallation.



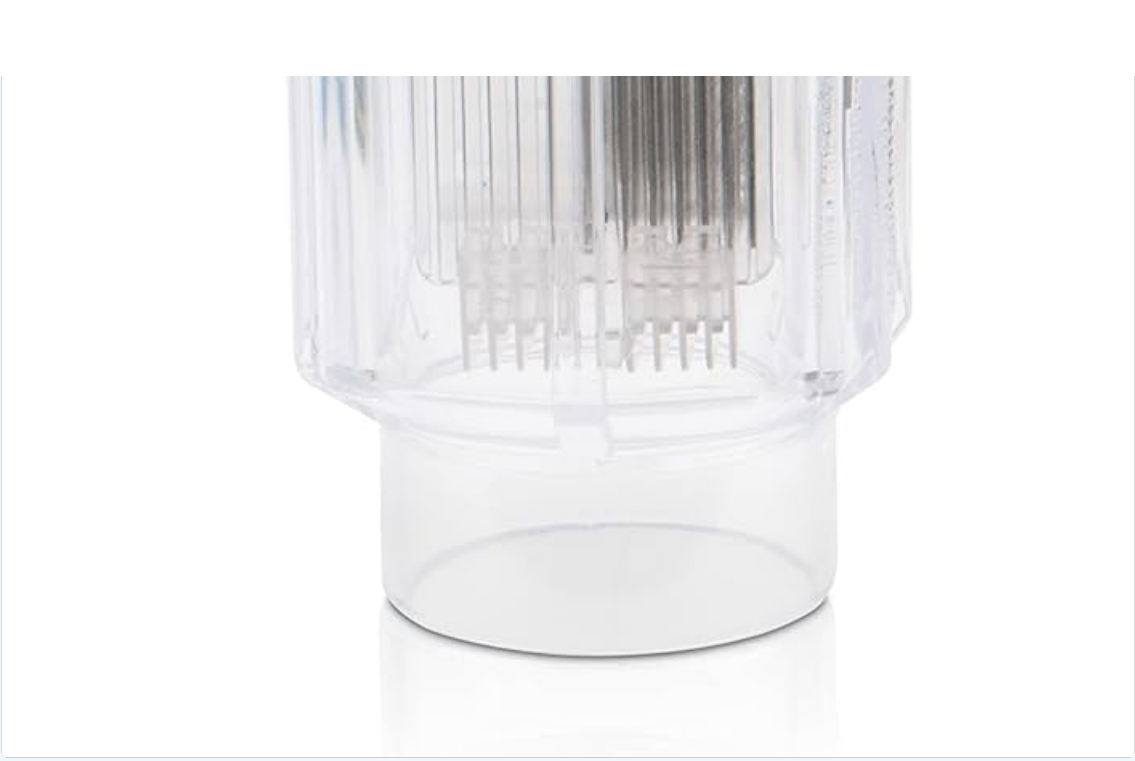


Figure 4: The transparent electrolysis cell, showing the internal electrodes that require periodic cleaning.

6.2. pH Probe Calibration

The pH probe requires periodic calibration to ensure accurate readings.

- **Frequency:** Calibrate the pH probe at the beginning of each swimming season and periodically throughout, or if readings appear inaccurate.
- **Procedure:** Use certified pH calibration solutions (e.g., pH 7.0 and pH 4.0 or 10.0). Follow the calibration steps outlined in the control unit's menu using the CAL button.

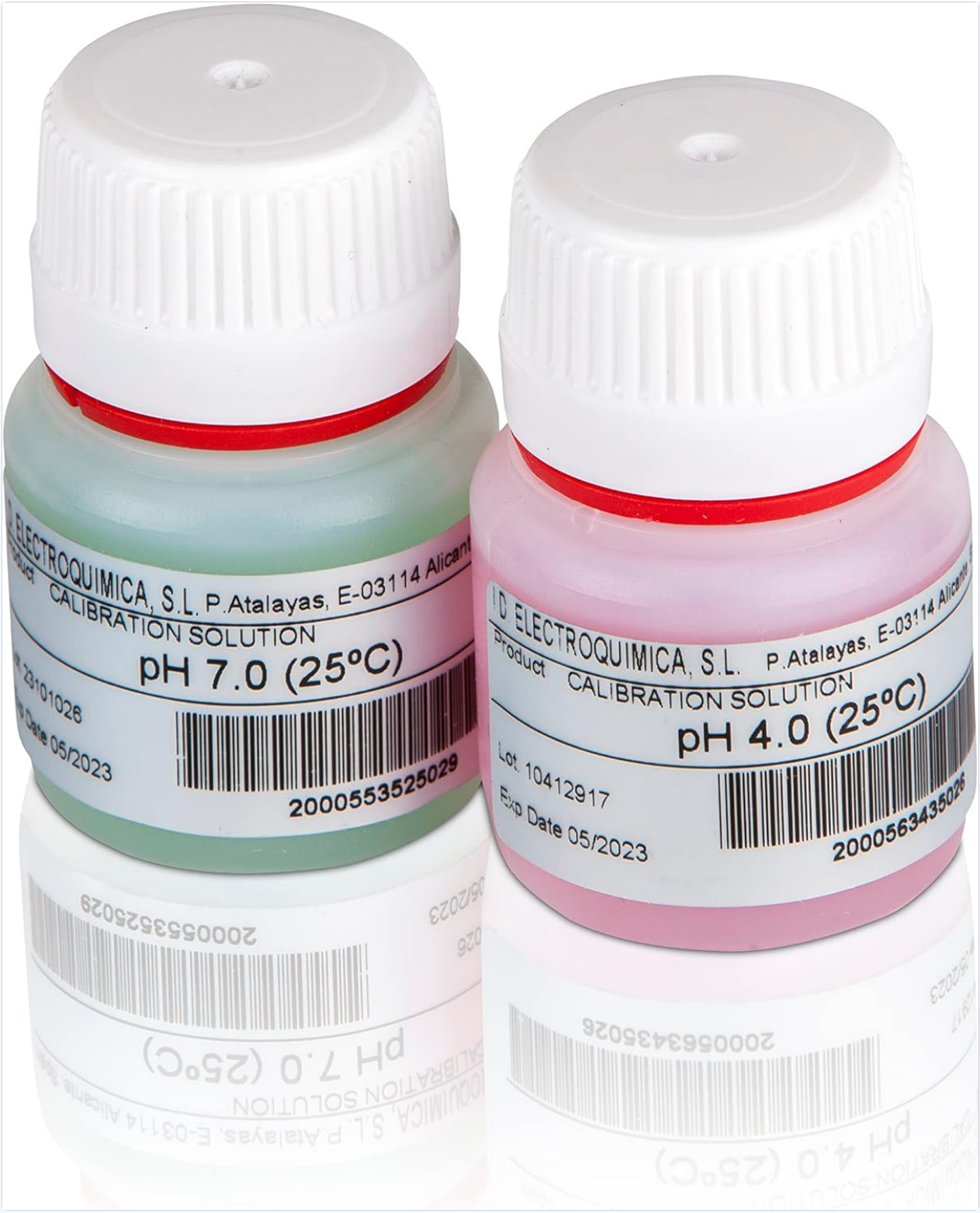


Figure 5: Bottles containing pH 7.0 and pH 4.0 calibration solutions, essential for accurate pH probe calibration.

6.3. Dosing Pump Tube Inspection

Regularly check the dosing pump tubes for blockages, kinks, or wear.

- **Frequency:** Inspect monthly.
- **Procedure:** Ensure the tubes are clear and free of debris. Replace any worn or damaged tubes.

7. Troubleshooting

This section addresses common issues you might encounter with your Gre SCGPHP60 system.

Problem	Possible Cause	Solution
Low or no chlorine production	• Low salt level • Dirty electrolysis cell • Insufficient water flow • Incorrect settings	• Check and adjust salt concentration to 4 g/l. • Clean the electrolysis cell as per maintenance instructions. • Ensure pool pump is running and providing at least 3 m³/h flow. • Verify chlorine production settings on the control unit.
pH level consistently high/low	• pH probe out of calibration • Empty pH correction solution container • Dosing pump malfunction or clogged tubes • Incorrect pH set point	• Calibrate the pH probe using fresh calibration solutions. • Refill the pH correction solution container. • Check dosing pump tubes for blockages and ensure the pump is operating. • Adjust the desired pH set point on the control unit.
System not powering on	• No power supply • Blown fuse/tripped breaker • Loose electrical connections	• Check power outlet and cable connections. • Inspect fuses or circuit breakers. • Ensure all electrical connections are secure.

If the problem persists after attempting these solutions, please contact customer support.

8. Specifications

- **Model Number:** SCGPHP60
- **Brand:** Gre
- **Product Dimensions (L x W x H):** 19.5 x 13 x 26 cm
- **Item Weight:** 4.06 Kilograms
- **Chlorine Production Capacity:** 12 g/h
- **Recommended Pool Volume:** Up to 60 m³
- **Required Salt Concentration:** 3.2 - 4 g/l
- **Minimum Flow Rate:** 3 m³/h
- **Energy Type:** AC/DC
- **Product Benefits:** Chlorine-free pool maintenance, pH control, reduced chemical usage.

9. Warranty Information

This product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.
For detailed warranty information, refer to the documentation included with your product or contact Gre customer service.

10. Support

If you require assistance with installation, operation, maintenance, or troubleshooting, please consult the following resources:

- **Gre Official Website:** Visit the official Gre website for additional resources, FAQs, and updated product information.
- **Customer Service:** Contact Gre customer support directly for personalized assistance. Contact details can typically be found on the product packaging or the official website.
- **Retailer Support:** Your product retailer may also offer support services.