



[Manuals.plus](#) /

› [Fengind](#) /

› Fengind Smart Saltwater Pool Chlorinator System User Manual

Fengind 20

Fengind Smart Saltwater Pool Chlorinator System User Manual

Model: 20
Brand: Fengind

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Fengind Smart Saltwater Pool Chlorinator System. This system is designed to efficiently produce chlorine from saltwater through electrolysis, ensuring clean and healthy pool water for pools up to 22,000 gallons. It features built-in Wi-Fi for remote control via a mobile application and self-cleaning titanium plates for reduced maintenance.



Figure 1: The Fengind Smart Saltwater Pool Chlorinator System main unit alongside its mobile application interface, demonstrating remote control capabilities.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing and operating this product. Failure to follow these instructions may result in property damage, serious injury, or death.

- **Electrical Safety:** Ensure the power supply is disconnected before any installation or maintenance. The unit requires a 110-120V AC power source. If hardwiring, consult a qualified electrician.
- **Water Exposure:** The unit has an IPX5 waterproof rating, meaning it is protected against low-pressure water jets from any direction. However, it is not designed for submersion and should be protected from prolonged direct sunlight or severe weather conditions to extend its lifespan.
- **Installation Orientation:** The chlorinator must be installed horizontally to ensure proper flow switch operation. Vertical installation is not suitable and can lead to dangerous conditions where chlorine is generated without water flow.
- **Pipe Compatibility:** Verify your existing pipe size before purchasing. This system supports two pipe connection options: 2-inch (outer diameter 60.3mm) and 1.5-inch (outer diameter 48.3mm).
- **Chemical Handling:** While the system reduces the need for external chemicals, proper salt levels are crucial. Always handle pool chemicals with care and follow manufacturer guidelines.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- Fengind Smart Saltwater Pool Chlorinator Unit
- Power Adapter
- 2-inch Pipe Adapter (for 60.3mm PVC pipe)
- 1.5-inch Pipe Adapter (for 48.3mm PVC pipe)
- User Manual
- Base Stand (for maintenance)

4. SPECIFICATIONS

Specification	Value
Product Dimensions	9.5 x 9 x 5.9 inches
Item Weight	6.45 pounds
Model Number	20
Rated Voltage	AC100-240V
Rated Frequency	50/60Hz
Water Pressure	0.05-0.4Mpa
Insulation Resistance	>20MΩ
Waterproof Rating	IPX5
Chlorine Output	20g/h
Rated Power	120W
Recommended Salinity	3000-4500ppm
Water Temperature Range	59°F - 86°F (15°C - 30°C)
Recommended Pool Volume	10,000-22,000 Gallons

5. INSTALLATION

The chlorinator unit is designed for inline installation on your pool's return pipe. Ensure the pool pump is off and the system is depressurized before beginning installation.

1. **Choose Location:** Select a section of the return pipe after the filter and heater (if applicable) where the chlorinator can be installed horizontally.
2. **Measure and Cut Pipe:** Based on the dimension of the chlorinator unit (approximately 273mm), cut a section of your PVC pipe. Ensure clean, straight cuts.
3. **Install Adapters:** Select the appropriate 2-inch or 1.5-inch adapter based on your pipe's outer diameter. Insert the threaded ring (nut) onto the PVC pipe first, then connect the adapter to the pipe using PVC cement.
4. **Attach Chlorinator Unit:** Securely attach the chlorinator unit to the installed adapters. Ensure the flow arrow on the chlorinator body matches the direction of water flow from your pump back to the pool. The unit's display may appear upside down depending on your pipe's orientation, but this is normal as long as the flow direction is correct.
5. **Connect Power:** Plug the power adapter into a standard 110-120V outlet. Alternatively, a qualified electrician can

hardwire the unit into your pool's electrical system for integrated timing.

6. **Check for Leaks:** Once installed, turn on your pool pump and carefully check all connections for any leaks.

Installation schematic diagram:

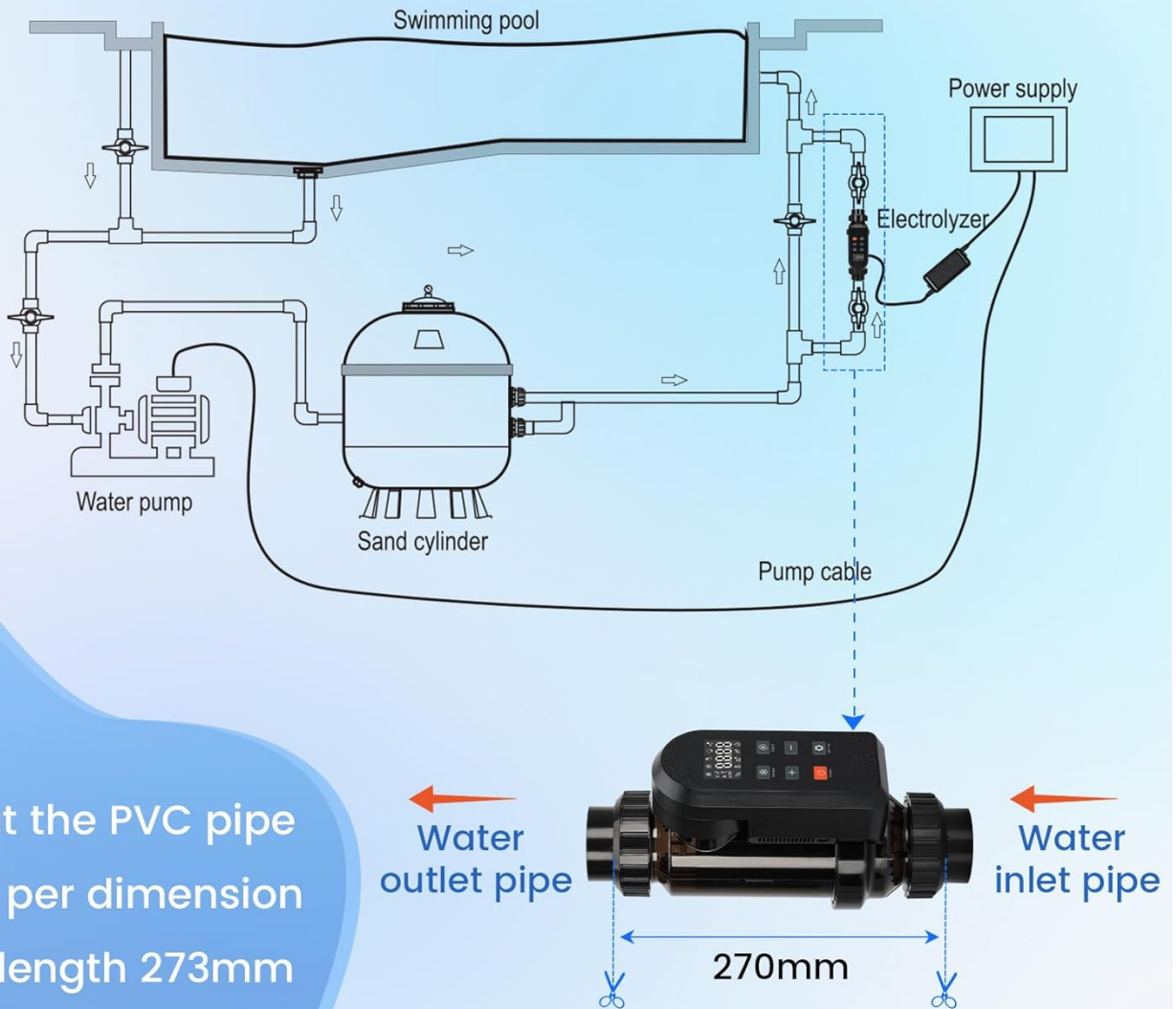


Figure 2: Schematic diagram illustrating the correct installation of the chlorinator unit within the pool's filtration system.

Suitable for 2" and 1.5" connected water pipes

A 2"Adapter (PVC pipe with an outer diameter of 60.3mm)



B 1.5"Adapter (PVC pipe with an outer diameter of 48.3mm)



Figure 3: Visual representation of the two pipe interface options (2-inch and 1.5-inch) for connection.

6. OPERATION

The Fengind Smart Saltwater Pool Chlorinator System offers both manual control and convenient Wi-Fi app remote control.

6.1 Manual Control Panel

The unit features a control panel with various buttons and indicators:

- **ON/OFF Button:** Powers the unit on or off.
- **Setting Button:** Accesses settings for chlorine strength, pole changing time, and operation hours.
- **+/- Buttons:** Adjusts settings values (e.g., chlorine strength from 5% to 100%).
- **Winter Key:** Activates winter mode for reduced chlorine production during colder months.
- **Turbo Key:** Activates turbo mode for increased chlorine production when needed.
- **LED Indicator:** Prompts to clean the electrode plate when cleaning conditions are met.
- **Salinity Indicator:** Displays normal salinity (always on in white) or low salinity (blinks in red).
- **Flow Indicator:** Blinks when flow switch is off, always on when flow switch is on.

- **Generate Indicator:** Off when chlorine production stops, always on when chlorine is being produced.
- **Polarity Indicator:** Off for normal polarity, always on when polarity is switched (for self-cleaning).
- **Connect Indicator:** Off when no Wi-Fi function, fast blink for pairing state, blinks twice every five seconds when Wi-Fi is configured and connected to the router.

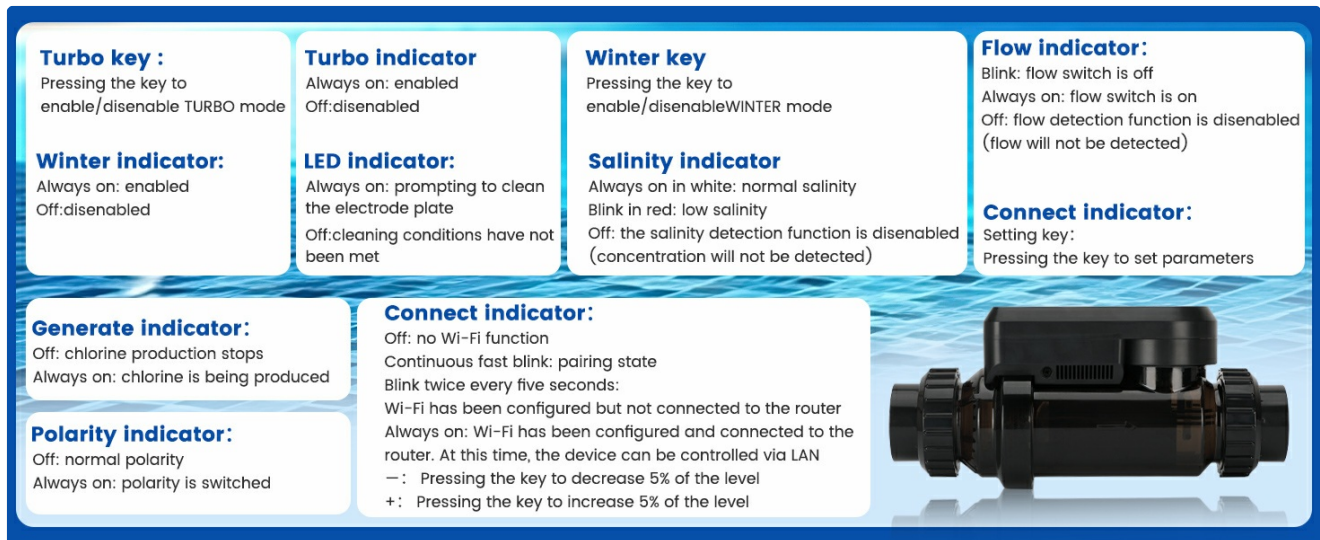


Figure 4: Overview of the control panel buttons and indicators for manual operation.

6.2 Wi-Fi App Remote Control

The built-in Wi-Fi module allows for convenient remote monitoring and control via a dedicated mobile application. This replaces traditional chlorinator systems by providing real-time water quality updates, alerts for issues, and maintenance reminders.

- **Download App:** Scan the QR code in the full user manual or search for the specified app in your device's app store.
- **Pair Device:** Follow the in-app instructions to connect your chlorinator to your home Wi-Fi network. The 'Connect Indicator' on the unit will guide you through the pairing process.
- **Remote Monitoring:** View real-time water temperature, flow status, and salinity levels directly from your smartphone.
- **Adjust Settings:** Remotely adjust chlorine strength (5%-100%), set run times, and configure automatic cleaning schedules.
- **Alerts & Reminders:** Receive notifications for low salt levels, operational issues, and maintenance reminders (e.g., electrode cleaning).

Support APP Remote Control By Wi-Fi



Figure 5: The mobile application interface, allowing intuitive remote operation and monitoring of the chlorinator.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your chlorinator system.

- **Self-Cleaning Titanium Plates:** The unit is equipped with a self-cleaning function that automatically reverses the electrode polarity every 8 hours of operation. This process reduces scale deposition and extends the lifespan of the electrolytic cell.
- **Cleaning Reminder:** After accumulating 500 hours of operation, the cleaning icon on the control panel will illuminate to remind you to perform a manual inspection or cleaning if necessary.
- **Salt Level Management:** The low salt alarm will notify you when salt levels drop below the set threshold. Timely adjustments are crucial for efficient chlorine production. The chlorinator automatically adjusts operation based on the set salt level (5%-100%).
- **Optimal Salinity:** Maintain the ideal salt concentration range of 3000-4500ppm for best performance.
- **Water Temperature:** Ensure the water temperature is within the recommended range of 59°F - 86°F (15°C - 30°C).

Titanium Plate Automatic Cleaning



1

By reverse processing, the dirt on the titanium plate is removed to ensure electrolysis efficiency and stable water quality.

2

Improve equipment performance and stability, reduce maintenance, and ensure stable water quality.

Figure 6: The automatic self-cleaning mechanism of the titanium plates, which reverses polarity to prevent scale buildup.

8. TROUBLESHOOTING

If you encounter issues with your Fengind Smart Saltwater Pool Chlorinator System, refer to the following common problems and solutions:

• Unit Not Powering On:

- Check if the power adapter is securely plugged into a working outlet.
- Ensure the ON/OFF button on the control panel is pressed.

• No Chlorine Production:

- Verify the pool pump is running and there is adequate water flow through the chlorinator. The 'Flow Indicator' should be solid.
- Check the salt level. If the 'Salinity Indicator' is blinking red, add salt to the pool.
- Ensure the chlorine strength setting is not at 0%.
- Check the 'Generate Indicator' to confirm chlorine production is active.

- **Low Salt Alarm Persists:**

- Confirm you have added enough salt and allowed sufficient time for it to dissolve and circulate.
- Test your pool's salinity with a reliable salt test kit to ensure it's within the recommended range (3000-4500ppm).

- **App Connectivity Issues:**

- Ensure your Wi-Fi router is working and within range of the chlorinator.
- Restart the chlorinator unit and your mobile device.
- Re-attempt the pairing process if necessary, following the app's instructions.

- **Electrode Plate Cleaning Reminder:**

- If the 'LED Indicator' is on, it's time to inspect the titanium plates for scale buildup. While the unit has self-cleaning, manual inspection is recommended after 500 hours of operation.

For any issues not covered here, please refer to the detailed user manual provided with the product or contact customer support.

9. WARRANTY AND SUPPORT

Your Fengind Smart Saltwater Pool Chlorinator System comes with a **3-year service period**. We are committed to providing timely and efficient support for any product-related concerns.

- **Customer Service:** For technical assistance, troubleshooting, or warranty claims, please contact Fengind customer support.
- **Response Time:** We aim to provide a fast and satisfactory solution within 12 hours of your inquiry.



3-year service period



12 hour fast professional response



There is a detailed user manual available

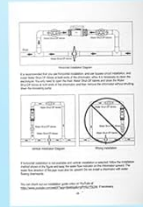


Figure 7: Fengind offers dedicated customer support for product inquiries and assistance.