

pure chlor salt system manual

Pure Chlor Salt System Manual

The Pure Chlor Salt System has become an increasingly popular choice for pool owners looking for a clean, efficient, and low-maintenance method of pool sanitation. This system generates chlorine from salt, providing a more pleasant swimming experience and reducing the need for traditional chemical treatments. This manual aims to provide you with comprehensive information on how to operate and maintain a Pure Chlor Salt System, ensuring you maximize its benefits while keeping your pool safe and enjoyable.

Understanding the Pure Chlor Salt System

A Pure Chlor Salt System operates by converting salt (sodium chloride) into chlorine through a process called electrolysis. This system is designed to automate the chlorination of your pool, allowing for a consistently sanitized swimming environment. The following are key components and concepts related to this system:

Key Components

1. **Salt Cell:** This is the heart of the system, where the electrolysis occurs. Water flows through the salt cell, and an electrical current passes through the saltwater, producing chlorine.
2. **Control Unit:** This unit allows you to adjust settings, monitor system performance, and check water chemistry. It typically features a digital display for real-time updates.
3. **Salt:** The type of salt used is crucial. Only pure, sodium chloride salt is recommended, typically available in granular form.
4. **Pool Water:** The salinity of the pool water should be regularly monitored, as it directly affects the chlorine production.

How It Works

1. **Salt Addition:** You add a specific amount of salt to the pool water, which dissolves and creates a saline solution.
2. **Electrolysis Process:** As water passes through the salt cell, the salt molecules are split into sodium and chlorine. The chlorine is then released into the pool, effectively sanitizing the water.
3. **Continuous Cycle:** The system continuously recycles the pool water, maintaining a steady level of chlorine without the need for manual additions.

Installation of the Pure Chlor Salt System

Installing a Pure Chlor Salt System requires careful planning and execution. Here's a step-by-step guide:

Pre-Installation Considerations

- Pool Size: Determine the size of your pool to choose an appropriately sized salt system.
- Location: Choose a location near the pool equipment that is easily accessible for maintenance.
- Electrical Supply: Ensure there is a suitable electrical supply for the control unit.

Installation Steps

1. Turn Off Power: Before starting, ensure that all power to the pool system is turned off.
2. Install Salt Cell:
 - Locate the plumbing where the water returns to the pool.
 - Cut the plumbing and install the salt cell according to the manufacturer's instructions. Ensure it is oriented in the correct direction for water flow.
3. Connect the Control Unit:
 - Mount the control unit in a convenient location.
 - Connect the control unit to the salt cell using the provided wiring.
4. Add Salt:
 - Calculate the amount of salt needed based on your pool volume.
 - Pour the salt directly into the pool, allowing it to dissolve.
5. Power Up:
 - Turn the power back on to the system and set the control unit to the desired chlorine level.

Operating the Pure Chlor Salt System

Once installed, operating the Pure Chlor Salt System is relatively straightforward. However, it is essential to understand its features and functionality.

Setting Chlorine Levels

- Adjusting Output: Most systems allow you to adjust the chlorine output. Typical settings range from 1 to 100 percent, depending on the pool's needs.
- Monitoring: Regularly check the digital display for chlorine production and system status.

Water Chemistry Maintenance

- Test Water Regularly: Use a reliable pool testing kit to check:
- pH levels (ideal range: 7.4 - 7.6)
- Alkalinity (ideal range: 80 - 120 ppm)
- Calcium hardness (ideal range: 200 - 400 ppm)
- Adjust as Needed: Use appropriate chemicals to adjust the water chemistry to keep your pool safe for swimming.

Maintenance of the Pure Chlor Salt System

Regular maintenance is vital to ensure the longevity and efficiency of your Pure Chlor Salt System.

Routine Maintenance Tasks

1. Inspect the Salt Cell:
 - Every few months, remove the salt cell and inspect it for calcium buildup. Clean it with a solution of muriatic acid if necessary.
2. Check Salt Levels:
 - Regularly test the salinity of the pool water. The ideal level is typically around 3000-3500 ppm.
3. Monitor the Control Unit:
 - Check for error codes or alerts on the control unit. Consult the manual for troubleshooting guidance.
4. General Pool Maintenance:
 - Regularly skim debris from the pool, brush the walls, and vacuum the floor to ensure optimal water circulation and clarity.

Seasonal Maintenance

- Winterizing: If you live in a colder climate, winterizing your salt system is crucial. This may involve draining the salt cell and control unit to prevent freezing.
- Spring Start-Up: In spring, inspect the system for any damage and ensure it is clean and ready for operation.

Common Issues and Troubleshooting

While the Pure Chlor Salt System is generally reliable, users may encounter a few common issues.

Low Chlorine Levels

- Causes: This can be due to low salt levels, improper settings, or issues with the salt cell.
- Solution: Check the salt concentration and adjust the output settings accordingly. Inspect and clean the salt cell if necessary.

High Salt Levels

- Causes: Overfilling the pool with salt can lead to high salinity.
- Solution: Dilute the pool by adding fresh water and recheck salinity levels.

Salt Cell Errors

- Causes: Error codes on the control unit could indicate issues with the salt cell or electrical connections.
- Solution: Consult the manual for specific error codes and follow the recommended troubleshooting steps.

Conclusion

The Pure Chlor Salt System provides pool owners with a convenient and effective way to maintain clean and safe swimming water. By understanding how to install, operate, and maintain this system, you can enjoy the benefits of automated chlorination while reducing your reliance on traditional chemicals. Regular checks and proper care will ensure that your system operates efficiently for years to come, providing a pleasant swimming experience for you and your family.

Frequently Asked Questions

What is a pure chlor salt system and how does it work?

A pure chlor salt system is a type of pool sanitation system that converts salt into chlorine through a process called electrolysis. It uses a salt cell to generate chlorine from the dissolved salt in the pool water, helping to keep the water clean and sanitized without the need for adding traditional chlorine.

How do I properly maintain my pure chlor salt system?

To maintain your pure chlor salt system, regularly check the salt levels, ensure the salt cell is clean and functioning properly, monitor pH and alkalinity levels, and inspect the system for any signs of wear or corrosion. It's also important to run the system for an appropriate number of hours each day based on your pool size.

What are the common troubleshooting steps for issues with a pure chlor salt system?

Common troubleshooting steps include checking the salt level, cleaning the salt cell to remove any buildup, ensuring that the water chemistry is balanced, and inspecting the power supply to the system. If issues persist, consulting the manufacturer's manual for specific error codes can provide further guidance.

Can I use a pure chlor salt system with any type of pool?

Most pure chlor salt systems are compatible with vinyl, fiberglass, and concrete pools. However, it's important to check the manufacturer's specifications to ensure compatibility, as some systems may have restrictions based on pool type or size.

What are the benefits of using a pure chlor salt system compared to traditional chlorine?

Benefits of using a pure chlor salt system include softer water that is gentler on the skin and eyes, reduced chlorine smell, lower maintenance costs over time, and the convenience of automated chlorine generation, which eliminates the need for manual chlorine handling and frequent additions.

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