



TX SERIES

TROUBLESHOOTING

GUIDE RESIDENTIAL

Electronic Chlorine Generator

IMPORTANT WARNING

WARNING:

First of all, thank you for choosing our salt chlorinator. For your best experience of the product, prevent the occurrence of accidents, please read carefully the whole content of this manual before installing and using this product. Please strictly follow the manual for your own safety and operation of the salt chlorinator. Neglecting the safety warning may cause serious consequences such as: grievous injury, property loss and may even cause life safety threatening consequences.

WARNING:

01. The installation and maintenance must be done by a licensed electrician. Or else there would be risk of electrocution, grievous injury, property loss and may even case life safety threatening consequences.
02. Before any maintenance or operation, ensure that the salt chlorinator is power unplugged, all machinery are turned off and power source is turned off.
03. Installation personnel must carefully read this manual before installation. If any improper or mistaken operation occurs, please contact the nearest authorized dealer or contact technical support department.
04. When parts are damaged, please prioritize the purchase of the replacement part at the manufacture or authorized dealer.
05. Salt is an inherently corrosive substance. However, compared to seawater and other salts, the LC series salt chlorinators require relatively low salt content for normal operation. Solution: Placing any amount of salt in the swimming pool increases the likelihood of corrosion or other deterioration of the pool equipment and any surfaces used in and around the pool. Metal parts (including metal pools) and some natural and artificial surfaces are particularly prone to corrosion and deterioration when used in and around brine pool.

Consult experienced swimming pool professionals, who should be able to provide suggestions on the correct selection of materials, installation technology of these materials, and the correct use, care and maintenance of these materials for your specific swimming pool type and location, so as to minimize the inherent corrosion and deterioration of the brine pool and its surroundings.

WARNING:

1. To reduce the risk of injury, do not allow children to use this product.
2. To reduce the risk of injury, service person should only be qualified pool service professionals.
3. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
4. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

ELECTRICAL SAFETY

Here are the key electrical precautions to consider:

1. QUALIFIED ELECTRICIAN:

It is strongly recommended to hire a qualified electrician to take care of any electrical work related to the installation of the salt chlorine. They have the expertise to handle electrical connections safely and in compliance with local electrical codes.

2. GFCL PROTECTION:

Ensure chlorinator and associated electrical connections are protected by ground fault circuit breakers (GFCI). (GFCI) is an essential safety device that protects against electric shocks in humid environments such as swimming pools.

3. VOLTAGE AND WIRING:

Use the correct voltage and wiring recommended by the chlorinator manufacturer. Ensure that the power supply meets the requirements specified in the chlorinator manual.

4. WEATHERPROOF:

All electrical components, including connections and sockets, should be weatherproof. This prevents water intake and minimizes the risk of electrical hazards.

5. DISTANCE FROM WATER SOURCE:

Install electrical components, receptacles and connections at a safe distance from water sources to prevent accidental contact with water.

6. ISOLATION AND CLOSURE:

Install an easily accessible shut-off switch or circuit breaker near the chlorinator. This allows for quick isolation of the power supply during maintenance or emergency situations.

7. CHECK REGULARLY:

Check electrical components regularly for signs of wear, damage, or corrosion. Make sure wires and connections are kept secure.

8. Strictly follow the installation instructions and electrical connection recommendations of the chlorinator. This ensures proper installation and safe operation.

9. SAFETY PRECAUTIONS:

Use appropriate personal protective equipment (PPE) for electrical connection work. Avoid handling electrical components in wet areas to reduce the risk of electric shock.

Electrical safety is of Paramount importance in any pool installation that involves electrical equipment such as chlorinator.

By following these precautions and seeking professional help if needed, you can ensure that your chlorinator is installed safely and correctly.

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Fault code	Fault cause	Treatment method
E1	The water temperature exceeds the normal range The normal operating temperature range is 10-45°C	Please ensure that the water temperature is within the normal working range.
E2	Low salt concentration	1. First, use a salinometer to check the salt concentration in the pool. If the salinity of the pool water is low, add salt to the pool to make the salinity reach the recommended salinity range; 2. If the salinity is normal, check whether the installation meets the requirements to ensure that the flow switch will not be switched on when there is no water in the pipeline; 3. Check whether the water passes through the pipe normally; 4. Turn on the circulating pump to make the pool water fully mixed and pressing the power ON/OFF button.
E4	The supplied power supply voltage is too high or too low	Please check that whether the power adapter is suitable.
E7	The system detects circuit faults	Please turn off the power supply and restart it. The chlorinator shall be turned on normally. If this happens for times, please contact the supplier to repair or replace the controller.

IF THE DISINFECTING EFFECT OF THE SALT CHLORINATOR IS NOT OPTIMAL, HERE ARE THE STEPS TO TROUBLESHOOT AND IMPROVE ITS PERFORMANCE:

1. Check chlorine output:

If these items are normal, it is recommended to test the residual chlorine content in the water every few hours to every day after the chlorinator is running. If you are not sure how to operate, consult a professional for more specific advice. If the residual chlorine is low this may indicate a pole plate failure or power supply problem.

2. Check the electrolytic cell:

Check the electrolytic cell for fouling or scaling. Use an appropriate cleaning solution to remove any deposits that may hinder chlorine production.

3. Salt content:

Make sure the salt content in the pool is within the recommended range (usually 3,000 to 4,000 ppm). Low salt levels affect the efficiency of the chlorinator.

4. Water Chemistry:

Unbalanced hydration can affect chlorine production. Check and balance pH, alkalinity, and stabilizer levels to ensure they are within the recommended range.

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5. Check circulation and filtration:

Inadequate water circulation or filtration can affect the distribution of chlorine. Ensure that the pump and filter are functioning properly and that the water is fully circulated.

6. Check for system errors:

Check the chlorinator control panel or display error codes or alerts. Refer to the manual for troubleshooting steps for specific error codes.

7. Pole film life:

The cell in the chlorinator may degrade and lose efficiency after used for years. If it is end of service life, you could consider replacing it.

8. Professional inspection:

If troubleshooting does not solve the problem, consider contacting a pool professional or the manufacturer's service department for further diagnosis and repair.