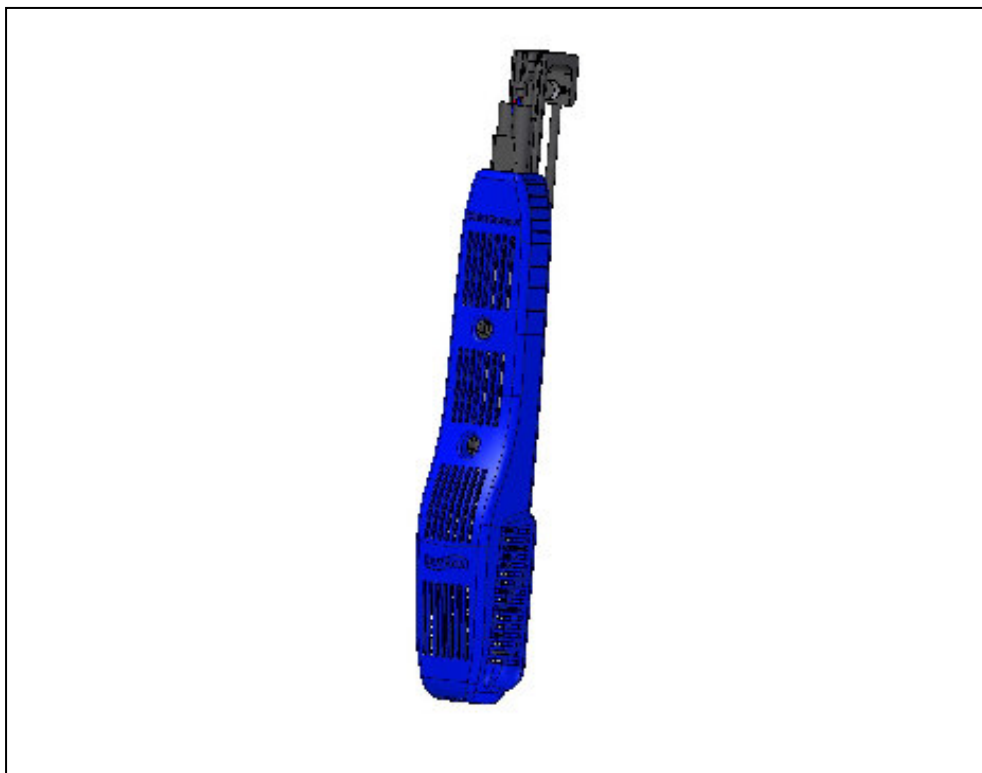


Hurlcon KX Siesta Above Ground Salt Water Chlorinator

by AstralPool Australia

OPERATING INSTRUCTIONS



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1.0 General Overview

Congratulations! You have purchased a Hurlcon KX Siesta Salt Water Chlorinator. No longer will you have to add chlorine on a daily basis – so sit back, relax and enjoy your pool and let the KX Siesta Chlorinator do the hard work for you.

Please read the instructions carefully and your purchase will provide you with years of trouble free use.

Your Hurlcon KX Siesta Chlorinator works by converting some of the salt in your pool into chlorine which combines with and destroys algae, bacteria and viruses in your pool water thereby disinfecting your pool. As part of the process, the chlorine is converted back into salt and hence salt is not consumed. Pool water evaporation will also not reduce salt, but splashing, backwashing your filter or draining and refilling your pool will dilute your salt level. Therefore, once your salt level is set (at 4,000 parts per million), very little salt is added again.

The chlorine output of your salt chlorinator will vary on the salt level and water temperature of your pool. Your KX is designed to produce 5.5 grams of salt per hour, when the salt level is at 4,000 ppm and the water temperature is 25 degrees Celsius.

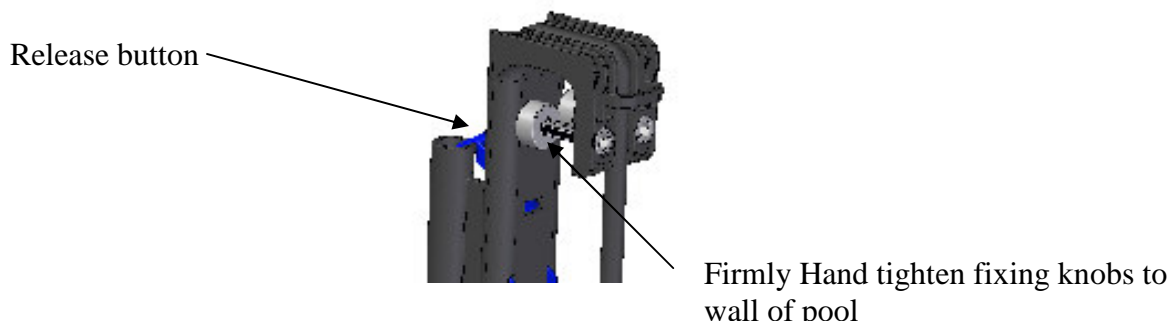
Note: The Chlorinator is not intended for use by young children or infirm persons without supervision. Please ensure that young children are supervised to ensure that they do not play with the Chlorinator.

2.0 Installation

Quick Guide Installation

- 1. Read safety instructions carefully.**
- 2. Dissolve pool salt in your pool to achieve 4,000 parts per million of salt. See page 5 for quantity of salt required. Allow 24 hours for salt to dissolve fully.**
- 3. Plug transformer into a sheltered or weatherproof power point at least 3 metres from the closest point of the pool. Ensure transformer is mounted on a wall or post in a vertical position at least 600mm above ground level.**
- 4. Mount KX bracket under pool coping and tighten 2 screws firmly.**
- 5. Snap in main KX body.**
- 6. Turn Power on.**
- 7. Visually check that you see bubbles slowly rising from the KX Chlorinator in your pool water. This indicates the unit is now producing chlorine.**

The KX Series Salt Water Chlorinator has been designed to operate in above ground swimming pools. Simply hang the unit over the edge of swimming pool within 1 meter downstream of the water inlet pipe returning to pool. To mount, remove the sectional capping on the top lip of pool and sit the KX Chlorinator into position. Tighten the location screws on the chlorinator. Tighten until unit is fully supported. See diagram below.



The power pack for the KX chlorinator must not be installed within 3 meters of the waters edge. The power pack should be plugged into an approved waterproof outlet. A total of seven metres of cable has been supplied attached to the unit. Extending or shortening of the cable is not recommended and may void warranty. The unit has been designed to operate with this length cable.

Input Power Rating

110–250 Vac – 0.5 amp max.

Pump and Filter Operation

It is important that the chlorine produced by your KX salt chlorinator is distributed throughout the pool evenly. For this to happen, your filter pump must operate for at least 8 hours in the summer season. During winter, it is common to reduce the daily operating hours to perhaps 4 hours per day.

3.0 General Operation/Pool Chemistry

3.1 Setting the Right Time

Your KX Chlorinator must be run every day to ensure that your pool is correctly sanitised. As the sun dissipates chlorine, running times are higher in the summer compared to the winter. AstralPool recommend that you initially run your chlorinator 24 hours a day.

Test the free chlorine reading in your pool after 8 hours and again after 24 hours. Your free chlorine reading should be between 1.0 and 3.0 ppm. Check the chlorine on day 2. Once again, your chlorine reading should be between 1.0 and 3.0 ppm.

If the reading is 3.0ppm or higher, perform a dilution test to ensure your chlorine test kit is accurate. (Dilution tests can be done by half filling your water sample with pool water and half filling with fresh tap water. If the reading is still 3.0 ppm, then your chlorine reading is too high).

If chlorine reading is high, it is recommended that you purchase a suitable timeclock to control the hours of operation to the unit.

If the chlorine reading is low, speak to your local pool shop about Cyanuric Acid (Sun Screen) which will prevent UV rays from the sun dissipating the chlorine so quickly.

If the power pack is installed outdoors, ensure that the timeclock purchased is suitable for outdoor use.

Remember, the hours of required operation will vary from winter to summer, so it is often a good idea to purchase a time clock that allows you to reduce the operating hours during the winter.

Summer

As an initial guide, you should turn your Chlorinator on to operate 24 hours per day.

Winter

As an initial guide, you should set your Chlorinator to operate for 12 hours per day.

Checking Chlorine Level.

Ideally, check your Chlorine level daily during the first week of operation. The water sample should be taken at the opposite end to the water return.

The free chlorine residual level should be somewhere between 1 and 3 part per million. Increase or decrease the running time of the Chlorinator to get the right residual chlorine level.

It is recommended that you get your chemical levels tested professionally at your local pool shop. From time to time, it will be necessary to super chlorinate your pool – refer to your local pool shop who can advise.

Unit is designed to produce between 5 and 6 grams of chlorine per hour.

3.2 Stabiliser

As previously mentioned, sunlight rapidly dissipates the amount of free chlorine in your pool. Chlorine stabiliser greatly reduces this effect.

Without stabiliser, you may need to run your Chlorinator longer every day.

Keep the Stabiliser reading between 30 and 60ppm.

3.3 pH Level

You should keep your pH level between 7.0 and 7.4 for fibreglass pools and 7.2 to 7.6 for other pools.

3.4 Total Alkalinity

The ideal range is between 80 and 120 ppm.

3.5 Salt Level

Although salt is not consumed by the Chlorinator, salt is lost during backwashing, and when your pool overflows due to rain or splashing. The correct salt level is important to cell life and the effective operation of your chlorinator. Salt level should be maintained around 4,000ppm.

Please use chart below to calculate initial salt required.

Pool Size	Depth	Litres	Salt Qty
8 x 4	1.2	38,400	150kg
7 x 5	1.0	35,000	140kg
4m diameter	1.2	15,072	60kg
5m diameter	1.1	21,587	85kg

To calculate exact quantity of salt required when added to fresh water, use the following formula.

Water Volume (in litres) X 0.004 = Salt quantity required in kg's

If you are told that the salt level is low, check again in 24 hours and then if it is still low, add salt to the shallow end of your pool. Run the filtration system for approx. 6 hours to help mix the salt in the pool. It can take up to a day for the salt to fully dissolve. Have your local Pool shop re test salt level

Warning: Some people recommend that you put salt directly in the skimmer box. This is a very bad practice as it allows very high concentrations of salt to be passed through your filtration and other pool equipment.

4.0 Chlorinator Maintenance and Troubleshooting

If the supply cord is damaged, it must be replaced by AstralPool or its service agent or a similarly qualified person in order to avoid a hazard.

4.1 Cell Maintenance

Your KX Chlorinator will need periodic cleaning, the frequency depending on the amount of use and level calcium and other T.D.S. in your water.

When you start to see a build-up of salt and calcium inside the cell unit it is time for maintenance.

Cell Cleaning Instructions:

- Disconnect power to the Power Packs
- Disconnect the Cell from the Power Pack by removing the push in connectors
- Remove the cell from the water by pushing down on the release button and pushing the unit towards the bottom of the pool.
- Using the allen key applied with unit, loosen two screws on front of unit and remove from cover.
- The cell needs to be soaked in a water /acid solution for 3 minutes.. The cell may need gentle brushing with a soft brush for stubborn calcium build-ups.

To dilute acid mix 1 part acid with 10 parts water. Always add the Acid to the water.

WARNING: Follow safety instructions provided with the Hydrochloric acid or cleaning solution. When handling Hydrochloric Acid, the use of eye protection, mask and gloves are highly recommended. Extreme caution should be taken whenever handling Hydrochloric Acid or Cell Cleaning Solution.

4.2 Troubleshooting

Fault Indication	Potential Cause	Remedy
Chlorine reading low	Low salt level	Test Salt level and add salt as recommended by pool shop
Chlorine reading zero	Insufficient sun screen or cyanuric acid	Test for C.A levels and increase as recommended by your pool shop
Chlorine reading zero	Chlorine reading actually too high and bleaching test reagent clear	Perform a dilution test
Chlorine reading high	Chlorinator operating too long each day	Install timer on power supply and reduce operating hours
White or Green Deposit on Cell mesh	Calcium Build up on Cathode	Unclip and remove unit from bracket and clean as per instructions.

5.0 Warranty

WARRANTY

Your KX Series Chlorinator is covered by a limited 2 year warranty. The Electrolytic Cell is warranted against defects in materials and assembly for 2 years from the date of purchase plus 30 days to allow for installation. The PowerPack is covered by a 12 month warranty against defects in materials and assembly.

To claim warranty, the Power Pack and/or Electrolytic Cell must be returned freight pre paid to your local AstralPool branch and include the date of purchase, from whom purchased and your full name, address and contact number.

There are no user serviceable parts. Always turn off and disconnect power supply when removing Chlorinator control or disconnecting the Cell. No representations may be made on AstralPool's behalf by any person unless permission, in writing is obtained from AstralPool.

Limitations

All warranties only apply if the equipment is installed and operated in complete compliance with the installation and operating instructions.

Specific limitations and exclusions include but are not limited to, water ingress into Power Pack, failure to clean or decalcify Electrolytic Cell and damage caused through excessively rough handling.

AstralPool assumes no liability for consequential damages of any kind. Should you request a warranty service call and the problem is diagnosed as non-warrantable, you will be charged for a diagnostic service plus any parts and labour required to repair the Chlorinator. No person is authorised to make any representations on behalf of AstralPool.

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