NORIA

performance on demand

ROK

INSTALLATION & OPERATION

ROK·XP

SALT CHLORINATOR

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OVERVIEW

The ROK:XP Salt Chlorinator is part of a range of intensively researched, high quality, connected products that work in harmony to ensure the pool is easy to maintain and ready for use at any time.

SPECIFICATIONS

Model	Per hour		Over 8 hours	
	Chlorine output (g/hr)	**Sod. Hypo. Equivalent** (g/hr)	**Chlorine output** (g/8hr)	**Sod. Hypo. Equivalent** (g/8hr)
ROK:XP15	15g	23g	120g	184g
ROK:XP25	25g	38g	200g	304g
ROK:XP35	35g	54g	280g	432g
ROK:XP45	45g	69g	360g	552g
ROK:XP55	55g	85g	440g	680g

INSTALLATION

1. Mount the Power Pack well above the ground and above the Cell if possible to prevent water from entering the Power Pack or Junction Box when the cell is removed for cleaning. Saltwater will burn/damage the Junction Box and damage electrical components in the Power Pack.
2. Connect the Cell horizontally (above water level installation) in the return line to the pool. Reducing bushes are supplied if you are using 40mm pipe.
3. Connect the leads to the Junction Box under the Power Pack ensuring that the colours match. Ensure that the screws are tight on the copper wire and not on the plastic insulation. Do not pinch the wires by over tightening the silver metal clamp on the junction box (lightly tighten this clamp).
4. Add pool salt until the correct salt level is reached. When the Chlorinator is turned on full (fully clockwise) the LEDs should reach the top of the curve. This shows that the water has the correct conductivity. More Salt may be added until LED reaches the top of the curve.

The normal range for all Models is:

ROK:XP - 3500-4000ppm

Never add fresh water into the Skimmer Box as this can shorten the life of the cell.

Clean the Cell if ever excessive calcium builds up (mainly at the legs, sides of plates and sensor on the head end). This may happen in very hard water over a long time. See “CELL CLEANING” on the next page.

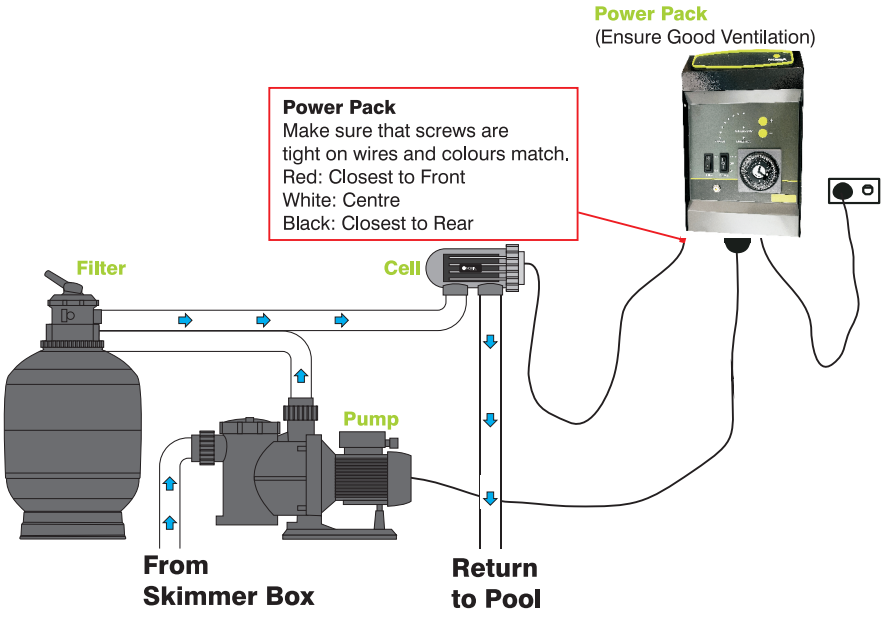
Maintain salt level at ROK:XP - 3500-4000ppm. Increasing the Salt above this does not improve chlorination and may overload the unit.

NOTE: Excessive Salt will also reduce chlorine output and overheat the power pack thereby shortening its life.

WARNING

The power pack internally contains live components. There is a danger of electric shock if opened. If power cord is damaged then it should be replaced by the manufacturer, their agent or similar qualified person in order to avoid a hazard. The product shall be installed according to AS/NZS 3000 wiring rules. It shall be installed outside the pool zone.

DIAGRAM



Warning: Do not plug in if carton has been wet.

OPERATION

1. Connect the equipment as explained in installation section.
2. Turn the chlorine production control to maximum and switch the unit on. If the salt level is correct the output should be close to 100% (at the top of the green or just into the red). When the water is cold it will read slightly lower than when warmer. If the output is well over 100% the salinity may be too high. In this case reduce the output control and take care that it is not accidentally turned up.

   ONLY ADD SALT WHEN YOU CANNOT REACH THE TOP OF THE GREEN SCALE (i.e. maximum output)
3. Set the Timer to run 6 - 10 hours in the summer and 3 - 6 hours in the winter. Run the unit for 2 periods every day (early morning and evening). If possible the evening period should be the longest period with only 1 - 2 hours in the morning with the evening period dependant on pool size. In winter the output can be turned down but reducing the run time is more economical. Only do this if you are still able to get adequate filtration.

   NOTE: Most Pool Shops will check your salt level for you, please refer them to these instructions.

CORRECT SALINITY FOR ALL MODELS:

ROK:XP - 3500-4000ppm

MORE CHLORINE is produced at the CORRECT salt level.

All our Self Cleaning chlorinators are controlled by a Micro-Chip that performs several functions, including the change of current direction and water sensing. The unit will operate with good stability on higher salt levels but it is still advisable to run at the correct level to prevent damage should the control be turned up by accident.

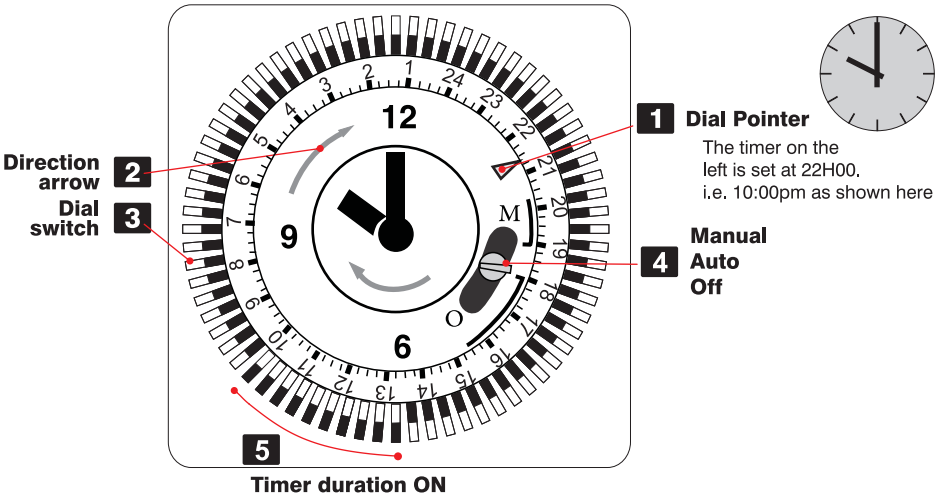
IMPORTANT: ALWAYS ADD FRESH WATER OR SALT TO THE BODY OF THE POOL AND NEVER DIRECTLY TO THE SKIMMER BOX.

CELL CLEANING

1. The Cell should not normally require cleaning.
2. In very hard water all calcium may not be removed. A slight deposit might form on the legs, sensor or sides of the cell plates. This will NOT affect the operation.
3. If you have abnormal calcium build up then clean it as below or contact your Pool Shop if problem persists.
4. To clean, unscrew Cell cap and remove head with electrodes. It is recommended to use Focus Saf-T-Cell salt cell cleaner to soak **only** the cell until clean.
5. Rinse and install the cell back into the housing.
6. When returning the Cell head to the housing ensure that the O-Ring is clean and properly seated.
7. Check that the junction box screws are tight at least once a year.

IMPORTANT: EYE PROTECTION AND GLOVES SHOULD BE WORN WHEN CLEANING THE CELL.

MECHANICAL TIMER



Clock setting

Be sure to turn the “TIME DIAL” in the Direction of the arrow clockwise. DO NOT turn in an anti-clockwise direction! Line up the correct time of Day on the DIAL with the POINTER. Each HOUR is divided into 4 x 15 Minute divisions (4x1/4hr)

NOTE: The example above time is set to 10:00pm (i.e. 22H00)

Timer setting

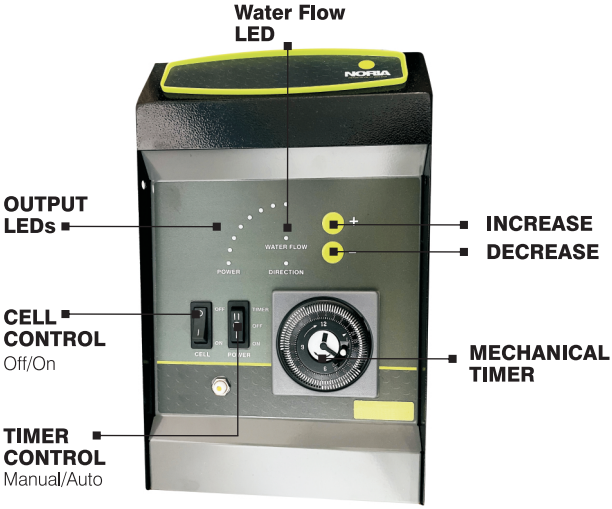
Set ON Times by moving ALL DIAL SWITCHES to the outer edge. Each SWITCH represents 1/4 Hour(15min) running. For one hour of running 4 switches will be set to the outer edge.

NOTE: The example above is set to run from 10AM to 1PM (3hours). All pins from 10 to 13 on the Dial will be extended out

POWER SUPPLY

The power supply is mounted above the cell assembly and flush to a wall with the fastener provided. It is preferable that the power supply is installed in a weatherproof location, but well ventilated.

The power supply must be mounted no further than 1.5 metres from the chlorinator cell, and positioned so as easy access is available to the controls/time clock.



Decrease Button
Single press of this button decreases chlorine production by approx. 15%.

Increase Button
Single press of the button increases chlorine production by approx. 15%. When all lights are ON the chlorine production is 100%.

Output LEDs
Chlorine Production Indicators. There are 7 indicators. Each indicator corresponds to Chlorine production.

Water Flow LED
If the water flow indicator is blinking RED, the chlorinator does not have sufficient water flow or has a fault.

Direction LED
Solid GREEN indicates the unit is operating in FORWARD direction. Flashing GREEN indicates the unit is operating in REVERSE direction.

Salt Test
Hold the UP button for 5 seconds. If the Output LEDs reach 100% then salt level is correct. After this test, return the OUTPUT to the required level. If the Output LEDs don't reach 100% contact your local Noria dealer to test the pool water for the required salt level.

TROUBLESHOOTING

Excessive Calcium Build Up on Cell (even after cleaning)

1. The current should reverse every 10, 7.5 or 5 hours depending on your setting. You are able to manually change cell direction by switching off the cell switch and turning it on again after 3 seconds. You may need to repeat this twice.

Low Chlorine Residual or Production:

1. Check for correct PH or insufficient stabiliser. Lift stabiliser to 60ppm in midsummer and during peak periods (normal range 40 - 60ppm).

Very Low Chlorine Production:

1. Check that the Cell is clean and the salt level is ROK:XP - 3500-4000ppm.
2. Check if the Cell switch lights up and if not check the Fuse/Circuit breaker.
3. Check that the Sensor has water covering it and not air. The Cell head should be placed so that the sensor “Peg” is on the bottom.
4. Remove and dry the Cell plates and examine every electrode to see if the black coating looks patchy. They may require cleaning and drying before this can be seen. If this is the case then the Cell might need replacing.

Note: Rapid damage like this is normally the result of far too low salinity or filling the pool with fresh water put direct into the skimmer box

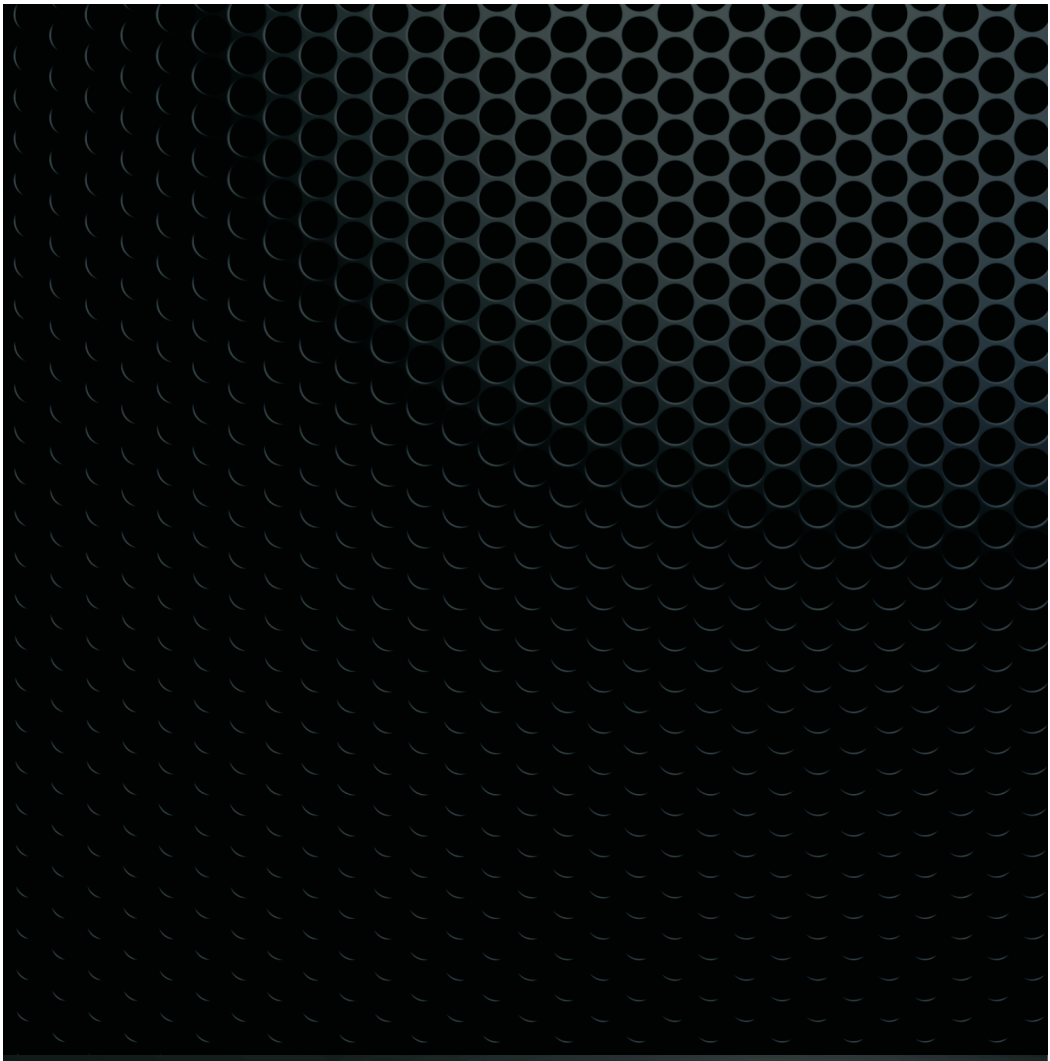
Nil Chlorine Production:

1. Check fuse/Circuit Breaker.
2. Check that the Pump is running and water is flowing through the Cell.
3. Check that the Sensor Peg is covered with water and not air/bubbles.
4. Check that the sensor is not covered with Calcium.
5. Check the Junction Box to see if all the connections are tight. If there is any sign of melting or burning of the Junction box it must be replaced. This is caused by either leaving a wire loose or salt water getting under the cover causing electrolysis of the connections.
6. If none of the above then contact your supplier. If the residual test is low or the Pool remains cloudy, then the chlorine is being lost due to high chlorine demand caused by contaminants. If PH and stabiliser tests are correct a shock treatment with an oxidiser agent is advised. If the Pool has not been maintained correctly, super-chlorination may be required

WARRANTY

To obtain warranty, please contact our Service Department to be directed to the nearest Warranty Service Agent;

For warranty information and forms visit Noria Warranty



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