Warranty Card

SURECHLOR 4000
Pool Management System

owners manual

Poolrite Equipment Pty. Ltd.

A.B.N. 11 001 674 004

Poolrite Equipment Pty. Ltd.
415 Creek Road,
P.O. Box 520,
Mt. Gravatt. QLD. 4122 Australia
Telephone: (07) 3323 6555
Facsimile: (07) 3323 6500

Poolrite Equipment Pty. Ltd.
15 Yiannis Court,
Springvale. VIC. 3171 Australia
Telephone: (03) 9547 4188
Facsimile: (03) 9547 1023

Poolrite Equipment Pty. Ltd.
36 Hugh Ryan Street,
Garbutt. QLD. 4814 Australia
Telephone (07) 4779 4880
Facsimile (07) 4779 6714

Poolrite Equipment Pty. Ltd.
6 Forsyth Close,
P.O. Box 7055,
Wetherill Park. N.S.W. 2164 Australia
Telephone: (02) 9729 0166
Facsimile: (02) 9729 2759

Poolrite Equipment Pty. Ltd.
Unit 10/16 Ledgar Road,
Balcatta. W.A. 6021 Australia
Telephone: (08) 9344 3871
Facsimile: (08) 9345 3923

Poolrite Equipment Pty. Ltd.
Unit 22, 761 Great South Road,
Penrose. Auckland
New Zealand.
Telephone: (09) 571 0210
Facsimile: 0800 766 574

Item No. 21619 (08/04)
Stella Print

Poolrite Surechlor 4000 Power Pack Controls and Connections

WARRANTY CARD

Surechlor 4000 Salt Water Chlorinator

Poolrite Equipment Pty. Ltd.

Your Poolrite Surechlor 4000 is manufactured to the highest possible standards and most up-to-date technology.

Accordingly the equipment carries the following Warranty, should a fault occur due to faulty manufacture or materials.

Important

In the event of a fault covered by Warranty occurring, the Purchaser must, in the first instance, contact Poolrite Equipment Pty. Ltd. or the closest authorised Poolrite Distributor. Poolrite Warrant the **original** purchaser of the Power Pack and Electrolytic Cell for a period of 12 months from the Date of Purchase by the **original** Owner, should examination disclose to its satisfaction that the Cell or Power Pack has failed due to faulty manufacture or materials. In addition for a further period of 24 months the Electrolytic Cell will be repaired or replaced at Pro Rata cost from Date of purchase by the **original** Owner.

The Warranty is void if the following occur:

1. Damage resulting from matters beyond Poolrite's control.
2. The Cell or Power Pack has been installed incorrectly and not in accordance with these instructions.
3. The Power Pack has been connected to a power supply other than 240 volt 50 Hz.
4. The Cell or Power Pack has been used for any purpose other than swimming pool or spa sterilisation.
5. Water above the temperature of 45°C has been permitted to flow through the Cell.
6. Water has not been permitted to flow freely through the Cell when turned on.
7. The safety flow detector or connections have been tampered with.
8. The Power Pack has been serviced by a person other than a person authorised to do so by Poolrite or it's agent.
9. The Cell power terminals have been submersed in acid solution when cleaning.
10. Non-swimming pool grade salt has been used in the pool.

This Warranty is applicable to workmanship and materials. Poolrite will repair or replace at no charge, all parts returned freight paid, which display faulty workmanship or materials.

Poolrite Equipment Pty. Ltd. accepts no responsibility for loss, damage or injury to person or property arising from Warranty failure of equipment, or installation of that equipment. Unless with the express prior authority of Poolrite, any repair or replacement shall be provided only by Poolrite or it's authorised distributors and this Warranty shall not extend to any expenditure otherwise incurred.

Warranty Card

Name of Purchaser

Address

Purchased From

Date

Equipment and Model

IMPORTANT: This card must be filled in and returned to Poolrite Equipment Pty. Limited within 14 days of purchase to render the Warranty effective.

Queensland Head Office
Sales & Export Brisbane
415 Creek Road,
P.O. Box 520,
Mt. Gravatt. QLD 4122
Telephone: (07) 3323 6555
Facsimile: (07) 3323 6500

Poolrite Equipment Pty. Ltd.
Unit 22, 761 Great South Road,
Penrose. Auckland
New Zealand.
Telephone: (09) 571 0210
Facsimile: 0800 766 574

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INSTALLATION INSTRUCTIONS

OWNERS MANUAL

Please hand this Owner's Manual to the pool owner after installation is completed as it contains the Warranty Card and vital information for correctly maintaining the pool and this product!

SURECHLOR CELL

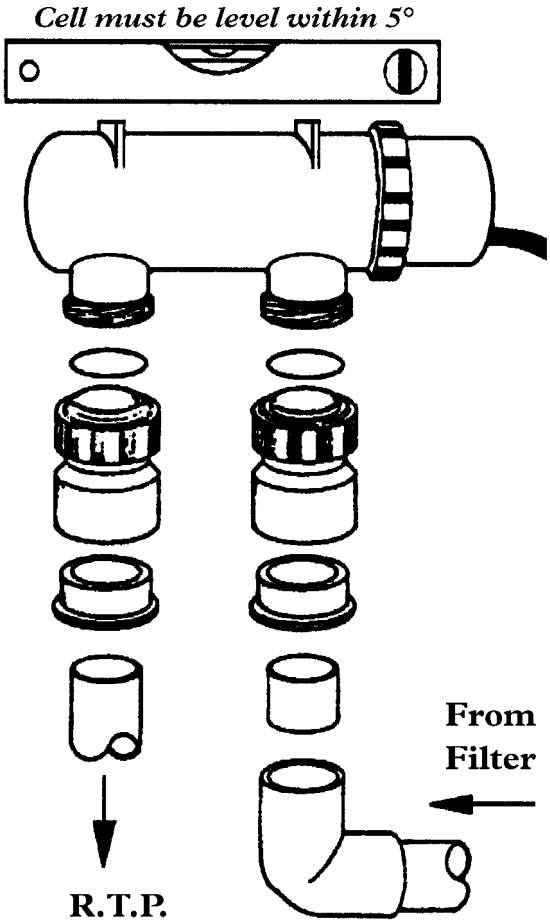
Ideally, the electrolytic cell should be installed in a position with 1.5 metres of a vertical wall or fence to allow the Power Pack to be easily mounted without the need to provide an additional post.

The cell must be installed horizontally (level) within 5°, in the return to pool line, with the two plumbing ports and arrow on label pointing down.

The water can flow in either direction through the cell.

Heaters and other equipment in the return to pool line must be before the cell i.e. between the cell and filter.

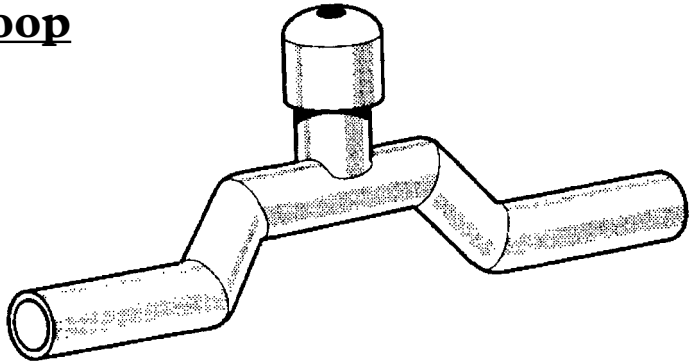
If an **air blower** is fitted to an air inlet for venturi jets, precautions must be taken to prevent gases generated in the Surechlor cell from accumulating in the blower and associated pipework.



The recommended way of achieving this is to install an inverted loop in the air line with a 3mm (max.) diameter hole in the top venting to atmosphere.

The diagram below shows the general arrangement for this loop.

Vented Loop



Warning: The Warranty will be void if the cell is not installed exactly as specified.

SURECHLOR POWER PACK

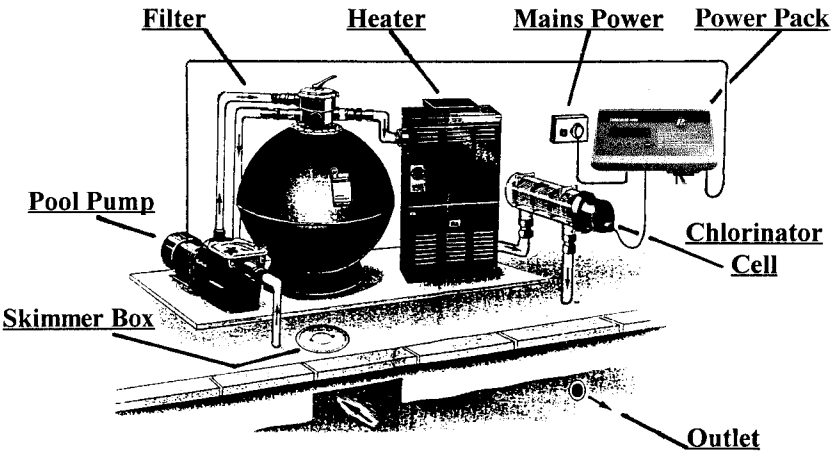
The Power Pack Enclosure is approved and rated to **Degree Of Protection IP24** and therefore can legally be installed in the **Pool Zone** as defined in the AS/NZS 3000 Wiring Rules. It **must** be mounted on a vertical wall or fence within 1.5 metres of the cell and at least 1 metre above the ground. Also, it **must** be in a position to allow its supply lead to be plugged into a 10 amp 240 volt power point.

Remember the filter pump must be plugged into this Power Pack.

Start by selecting a suitable place to attach the Mounting Bracket using the two screws provided. The Mounting Bracket must be fixed with the screws horizontal and the vent louvres above the screws facing upwards.

If no suitable wall is available, then install a 100mm x 100mm hardwood post with a vertical mounting board 400mm wide x 300mm high x 18mm thick attached.

Hook the Power Pack onto the Mounting Bracket by the top edge at the rear of the box. When secure, plug the power lead into a suitable 240 volt power point but do not switch on.



Typical Installation

CONNECTING THE POOL PUMP

- Plug the pool pump into the pump socket at the bottom of the unit. (see **Note** below about the use of large or 3 phase pumps).

Off-Peak Installations

This unit is suitable for off-peak tariff supply.

Warning: The Warranty will be void if the Power Pack is installed or operated .....

a) on, or less than 1 metre from the ground.

b) in a position where flooding from ground water could occur.

c) where the airflow is obstructed, i.e. within an unvented auxiliary enclosure.

d) with a load (pump) connected to the 240 volt pump outlet socket greater than 1.5kw (continuous).

e) from an electrical supply socket which is not rated to supply 10 amps at 240 volts 50Hz and is not adequately protected by the correct size fuse or circuit breakers.

Note: If a pump load greater than 1.5Kw or the use of a 3 phase pump is required, an interface relay must be installed.

If double adaptors or stackable plugs are employed to operate more than one pump directly from this Pump Outlet Socket the Warranty will be void.

Please refer to your Poolrite State Office for details.

ADDING SALT TO THE POOL

Start up procedure for marble surface pools

For new concrete pools with marble plaster (marblesheen) finishes we recommend that the salt not be added to the pool until the excess calcium compounds in the plaster have leached out and the pH of the water has stabilised.

The recommended stabilising period is:

- For hand mixed/applied plaster 12 weeks.
- For machine mixed/applied plaster 24 weeks.

During this period the pool should be sterilised with liquid chlorine.

Calculating Pool Capacity

Swimming pool grade salt (low mineral content Sodium Chloride) must be added to the pool and allowed to completely dissolve before operating the chlorinator cell.

The amount of salt to be added cannot be calculated until the volume of water contained in the pool is determined.

This water volume can be obtained by:

(a) Referring to the pool manufacturer's data (if pre-moulded fibreglass).

(b) Reading the difference on the water meter before and after filling.

(c) By mathematical calculation.

Formula For Calculating Water Volume

Water Volume (m^3) = [Surface Area (m^2) x Average Depth (m)] minus [Volume occupied by steps, swim-outs, etc.]

Calculating Salt To Be Added

The amount of salt to be added to the calculated volume of water in the pool depends on the salt concentration selected.

$$\textbf{Salt Quantity (kg)} = \frac{\textbf{Water Volume } (m^3) \textbf{ x Salt Concentration (mg/l)}}{\textbf{1000}}$$

For example, if the calculated volume of water in your pool is 60.0 cubic metres (as per previous example) and the minimum salt level of 6000 mg/l is required (for cool climates), the amount of salt needed will be:

$$\text{Salt Quantity} = \frac{60 \times 6000}{1000}$$

$$= 360 \text{ kg}$$

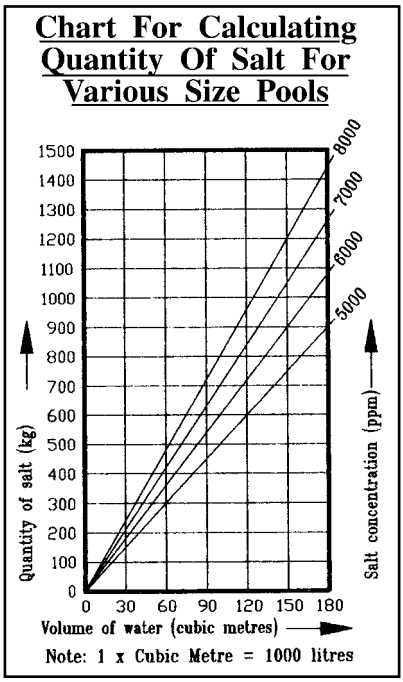
What Salt Concentration To Use

Although your Surechlor 4000 has been designed to operate with a wide range of salt concentrations, the minimum recommended level is 6000 mg/l (P.P.M.). However with heated and outdoor pools in tropical and sub-tropical climates, salt levels between 7000 and 8000 mg/l can be maintained in order to gain the benefits of increased chlorine output, reduced cell maintenance and extended cell life.

The Chlorine Control can be switched to 100% output if higher salt levels are used without the risk of damage occurring, due to the incorporation of electronic output limiting on all of these model chlorinators.

To make the calculation easier, we have provided the chart on the following page.

To find the correct amount of salt using this chart:



1. Mark the point along the bottom edge which corresponds with the calculated volume of water in the pool.
2. Draw a vertical line from this point which intersects the inclined lines showing salt concentrations.
3. From the point where this vertical line intersects the inclined line showing the chosen salt concentration, draw a horizontal line across to the left. Where this line crosses the left side of the graph, the quantity of salt in kilograms will be indicated.

Adding Salt And Stabiliser To The Pool

If you are quite sure of your calculations then add the calculated amount of salt directly to your pool.

Warning:

Only swimming pool grade salt (Sodium Chloride) should be used. Inferior grades may lead to problems with the chlorinator cell.

Do not attempt to add salt via the surface skimmer as this can cause damage to the filtration system.

Any suction type pool cleaners should also be disconnected before adding salt.

At the same time add the recommended quantity of **cyanuric acid stabiliser.** This is most important as your Surechlor will not operate efficiently during summer months without the correct level of stabiliser in the pool. Recommended level for maximum efficiency is between 30 and 60 mg/l (ppm). pH buffer can also be added now if required.

Dissolving The Salt

Before attempting to operate the Surechlor 4000 cell, the salt must be allowed to fully dissolve in the pool water. This is the best achieved (after allowing sufficient time for the glue on the pipe fittings to set properly) by running the filter pump without the cell operating for 24 hours to circulate the water.

To assist the dissolving of the salt, regularly brush the floor of the pool with a pool broom until the salt has dissolved.

When The Salt Has Dissolved

With the pump still operating, increase the Chlorine Control to maximum. The Monitor should indicate 10 bars.

Your Surechlor is now generating chlorine!

Should the Output Monitor read low with the Chlorine Control at maximum, do not be concerned, just allow the system to run for another 24-48 hours. If the display continues to give a low reading after this period, press the Salt Test (with the system running) and note the display message.

If the water temperature is around 25°C and the cell is relatively clean, this reading will indicate salt concentration. If it confirms the salt level is low then add more salt gradually over a period of days until the display reads normal. Continue brushing floor of pool until the additional salt has dissolved.

SETTINGS AND CONTROLS

CHLORINE CONTROL — all models

Because your Surechlor 4000 has been designed to operate over a wide range of salt levels, water temperature, running time, etc., a Chlorine Control has been provided to compensate for these variations.

When first starting the unit and where maximum chlorine production is needed the output should be set to maximum.

The Chlorine Control on all Surechlor 4000 models can be set to maximum if higher salt levels are used without the risk of damage occurring, due to the incorporation of electronic output limiting.

To operate the filter pump only without the cell, press the menu button until “Manual Control” appears on the display and press enter.
Press enter until “Pump” appears.
Press ∧ or ∨ to turn the pump on or off.

OUTPUT MONITOR

This multi-function display has been provided to allow monitoring of the current passing through the electrolytic cell to allow you to gauge the operation of the cell and the chlorine production. This assists in determining the condition of the electrolytic cell.

The output may be adjusted with the up ∧ or down ∨ buttons, from 10% to 100%.

A bar graph will indicate the actual output.
Each bar is equal to 10% production.

Example: 3 bars is 30%.

OPERATING INSTRUCTIONS

Using The Salt Test

Press the menu button once and press the enter button. The system will display the message “SALT OK” or “SALT LOW”.

Using Super Chlorination

Press the menu button twice and press enter. The up button will turn on super chlorination and the down button will turn it off. The system will run for 12 hours at 100% and display a count down timer.

Using Manual Control

Press the menu button three times and press enter. To activate the pump, press enter. The up button will turn it on and the down button will turn it off. To turn on the chlorinator and pump, press enter again. The up button will turn it on and the down button will turn it off.

Setting The Time

Press the menu button four times and press enter. Each program can be turned on by pressing the up button and turned off by pressing the down button. Press enter again and adjust the start time with the up and down buttons as necessary. Press enter again and adjust the stop time with the up and down buttons as necessary.

Setting The Winter Modes

Winter mode 1 will reduce the pump run time in program 1 by 1 hour and it will reduce chlorine output by 20%. Winter mode 2 will reduce the pump run times in programs 2 and 3 by 1 hour each. It will also reduce chlorine output by a further 20%.

To operate the winter mode settings, press the menu button five times and press enter. Each program can be turned on by pressing the up button and turned off by pressing the down button. Press enter again and adjust the start month with the up and down buttons as necessary. Press enter again and adjust the start day with the up and down buttons as necessary. Press enter again and adjust the stop month with the up and down buttons as necessary. Press enter again and adjust the stop day with the up and down buttons as necessary.

This setting is useful for pools with limited use during colder months and will save energy costs each year.

Changing The Settings

Press the menu button 6 times and press enter. The system will display the beeper control. It can be turned on by pressing the up button and turned off by pressing the down button. To set the year, press enter again and adjust with the up and down buttons as necessary. To set the month, press enter again and adjust with the up and down buttons as necessary. To set the day, press enter again and adjust with the up and down buttons as necessary. To set the time, press enter again and adjust with the up and down buttons as necessary.

Pressing enter again will display the program version number, the model number and the vendor phone number.

Accessing the System History

Press the menu button 8 times and press enter. The system will display the number of hours that it has run with low salt. Press enter again and it will display the number of hours that the system has operated with insufficient water in the cell. Press enter again and it will display the number of times that the system has switched off due to loss of pump prime. Press enter again and the system will display the number of times that the system has switched off due to power spikes. Press enter again and the system will display the number of hours that it has operated at high temperature. Press enter again and the system will display the number of times that it has shut down due to high temperatures. Press enter again and the system will display the number of hours that it has operated since the last service.

Messages

If the system has switched off, it will sound an alarm every minute and display the reason. To reset the system press the on button. Not all alarms will turn off the unit, only those which may cause damage.

HOW YOUR SURECHLOR 4000 SALT WATER CHLORINATOR WORKS.

Common salt (Sodium Chloride) is made up of two elements, sodium and chlorine. When your Poolrite Surechlor 4000 is installed a measured amount of salt is dissolved in the pool water to make it slightly salty (about 15% of the salt found in sea water). When the filter system is operating this pool water also flows through the clear Electrolytic Cell where a very low voltage electric current is passed through the salty water which causes chlorine to be produced. This chlorine instantly dissolves in the pool water. Some ozone and other gasses are also produced as a by-product of the process.

Put very simply, this dissolved chlorine starts to destroy bacteria, viruses and algae almost instantly and in doing so reverts back to dissolved salt. This cycle continues with more new chlorine being generated from the salty water in the cell, the pool being sanitised and the chlorine reverting back to dissolved salt.

As your Surechlor 4000 is operating each day during normal operation of the filtration system, solid particles are trapped by the filter while your Surechlor 4000 sanitises the water to make it safe, clear and sparkling.

MAINTENANCE OF POOL WATER CHEMISTRY

CHLORINE LEVEL

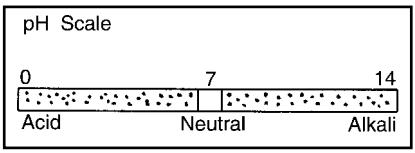
Using a 4 in 1 test kit, test the pool water daily at first then at least once a week to ensure sufficient chlorine level is being maintained. A free chlorine reading of 1.5 mg/l (ppm) and above is adequate when taken near the skimmer.

Should the level fall below 1.5 mg/l (ppm) check salt level and/or increase the daily running time of filter and Surechlor.

pH CONTROL

Check the pH of your pool at least once a week after your Surechlor is first installed.

The pH of your pool is a measure of the balance between acidic and alkaline products in the water. It is measured on a scale of 0 to 14.



A pH level of 0.0	is pure acid.
A pH level of 7.0	is neutral.
A pH level of 14.0	is pure alkali.

The recommended range for swimming pool water is 7.2 to 7.6 for concrete pools, and you should refer to your builder's recommendations for other types of pools.

Controlling the pH of your pool is vital to the correct operation of the Surechlor and the effectiveness of the chlorine produced to kill algae and bacteria and the comfort of bathers. Correct pH also effects the life of metals, cement products and plaster finishes in the pool.

If a pH test indicates a low pH then add sodium bicarbonate (pH buffer) to raise the pH. If the pH is high then add acid (hydrochloric or dry acid) to lower the pH.

Adding Acid

If the addition of acid is indicated, be careful not to add too much at one time as this may destroy total alkalinity or cause harmful effects. We suggest you turn on the filter, add the acid to water in a plastic watering can to dilute, then distribute evenly around the pool away from walls, steps, etc.

TOTAL ALKALINITY

Check the Total Alkalinity at least once a month and maintain correct level for proper pool water balance.

Total Alkalinity is a measure of the acid neutralising capacity of water which indicates its ability to buffer (resist) changes in pH.

The addition of sodium bicarbonate will increase the level and acid will reduce it. Measurements can be made with a 4 in 1 test kit.

Correct levels depend on other factors such as hardness, pH and temperature, however the following levels can be used as a guide.

Concrete Pool — 150 to 250 mg/l Fibreglass Pools — 80 to 100 mg/l max.

Vinyl Lined Pools — Above 100 mg/l

CYANURIC ACID STABILISER

Have a water sample tested at least every 4 months by your pool shop to determine the level of Cyanuric Acid Stabiliser. It is most important that a level between 30 and 60 mg/l (ppm) be maintained in order for your Surechlor to work efficiently during Summer if your pool is outdoors.

CALCIUM HARDNESS

Calcium Hardness is a measure of the calcium compounds dissolved in the water.

Recommended levels should be as low as practical to minimise problems with calcium deposits forming in the cell, therefore don't add any further calcium chloride (to raise hardness) or calcium hypochlorite (granular chlorine) to your pool once the decision has been made to install saltwater chlorination.

Warning

Water supplies from bores/rivers/dams etc., can be high in mineral contaminants resulting in poor chlorine production, therefore water may require additional chemical treatment.

ALGAECIDES

Adherence to the above water chemistry recommendations should alleviate the need to use algaecides in your pool.

MAINTAINING SALT LEVELS

Before attempting to add salt to your pool ensure that the cell is clean. Then, with the filter and cell operating, the Salt Test should be pressed and the reading on the Output Monitor noted.

If this reading indicates the level of salt is too low it must then be increased. This will normally be required about 4 times a year on average domestic pools but will vary depending on the type of filtration, climatic conditions, etc.

Note: Higher salt levels are recommended in hot weather conditions where maximum chlorine production is needed. We suggest levels as high as 8000 mg/l (ppm) in these situations.

MAINTENANCE OF YOUR SURECHLOR 4000

Your Surechlor 4000 Auto Kleen has been designed to operate for extended periods with a minimum of maintenance. The cell cleaning function is performed automatically via the inbuilt electronic control module.

Cell Cleaning (Manual Procedure)

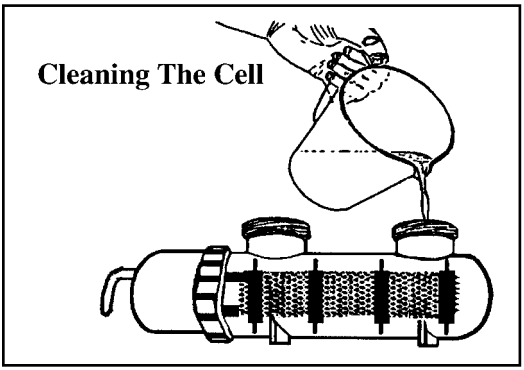
1. Remove Surechlor Power Pack plug from 240 volt power point.
2. Remove cell from plumbing line.
3. Turn cell upside down (ports facing upwards) and place on a level non-metallic surface in a well ventilated area.

Warning: Rubber gloves and protective eyeware must be worn before proceeding to the next steps!

4. Prepare an 8:1 acid cleaning solution by firstly measuring 2 litres of water into a plastic bucket and then carefully adding 250ml of Hydrochloric Acid.
   Stir thoroughly with a wooden stick.
5. Carefully pour sufficient cleaning solution into upturned cell so as to fully cover metal electrodes.
6. Allow to stand for 10 minutes then flush out with clean water.
   Do not put used acid solution into pool.
7. If electrodes still show white deposits, repeat the above steps.

Note: It is recommended that a warm water detergent solution be used to soak the electrodes at this point if there is any evidence of body fats, oils or greases.

8. Re-fit cell to plumbing line making sure both rubber “O” ring seals are in place.
9. Re-connect plug of Power Pack to 240 volt power point and switch on.



Note:

This system is fitted with a backup battery and real time clock. The time will not require resetting.

HOW LONG SHOULD YOUR CHLORINATOR CELL LAST?

When installed on a normal domestic pool, Poolrite cell electrodes have a nominal life expectancy of approximately four years if they are correctly maintained.

With operating conditions varying widely in different pools, the actual life of the cell electrodes can be quite different from the nominal life.

For example, a chlorinator cell operating for only 3 hours daily can be expected to last twice as long as the same cell operating for 6 hours daily. Likewise, the same cell operating 24 hours daily may suffer electrode failure after just one year!

Common Causes Of Premature Cell Failure

a) Operating the cell with too little salt in the water (this can often happen after heavy rain).

b) Excessive accumulation of calcium deposits on electrodes.

c) Low water flow through cell (poor filter maintenance or a faulty pump are typical causes).

d) Physical damage to electrode coating caused by scraping with a screwdriver, etc.

e) Cleaning of electrodes in too strong an acid solution (greater than 1 part hydrochloric acid in 8 parts water).

f) Acid washing for too long (10-15 minutes max. In contact with 1:8 acid/water should be more than sufficient).

To assist you in prolonging the life of your Surechlor 4000 Cell Electrodes, we have provided this chart of Common Causes Of Premature Cell Failure based on our extensive experience in designing, manufacturing and servicing salt water chlorinators in Australia.

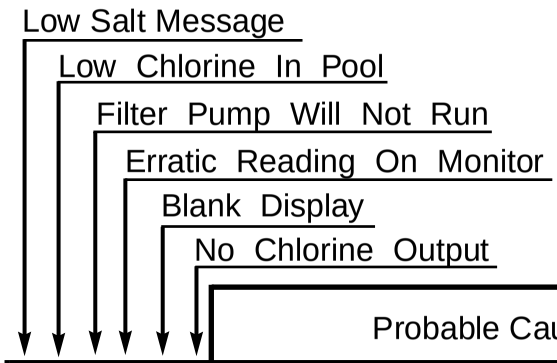
In order to achieve the longest possible life from your Surechlor 4000 cell, we recommend that the owner bear these important points in mind as it is sometimes difficult to determine which of the above points was responsible when inspecting a cell which has failed prematurely.

CUSTOMER RESPONSIBILITIES

BEFORE YOU CALL FOR SERVICE read the Operating Instructions carefully and check the following points which are your responsibility.

- A service charge will be made for service as a result of:
- Power point not turned on or faulty (check with another appliance).
- Time incorrectly set.
- Unit incorrectly installed.
- Pump not plugged into Surechlor Pump Outlet Socket.
- Controls incorrectly set.
- Poor water chemistry (Salt Level, pH, etc).
- Cell not being cleaned (acid washed) properly.
- Poor water flow (check filter is clean / pump operating / skimmer free of obstructions).
- Unit being tampered with by unauthorised persons.

Operational Check List



						Probable Cause	Remedy
●	●		●		●	Cell dirty	Visually check cell and acid wash cell if dirty
●	●		●		●	Low salt	Use Salt Test and add salt if required
●						Low water temperature	Normal for Winter (accept lower readings)
	●		●		●	Poor water flow	Filter dirty/leaves in baskets/valves closed
	●					Insufficient daily running time	Increase running time of filter and Surechlor
	●					Insufficient chlorine stabiliser	Have pool checked and add stabiliser if needed
	●	●		●	●	Power point not switched on	Check power point
●	●		●		●	Excessive air in cell	Pump lid/pipe connections/low pool water
●	●				●	“Chlorine Control” turned down	Check Chlorine Control setting
	●			●	●	Internal fuse blown	Call serviceman
	●	●		●	●	Time not correctly set	Check settings and read instructions
	●			●	●	Pump not running	Check motor overload from blockage in pump
●	●	●	●	●	●	Pump problems	Check for locked rotor or call serviceman
		●		●	●	Pump not plugged into unit	Check pump is plugged into Power Pack

ELECTRICAL SPECIFICATIONS
POOLRITE SURECHLOR 4000 SERIES
SALT WATER CHLORINATORS

INPUT = 240V / 50Hz

POWER CONSUMPTION (Max.):

15G = 110 VA
25G = 160 VA
35G = 220 VA
45G = 270 VA
70G = 370 VA

OUTPUT (Max.):

Pump Socket = 240V 50Hz
= 1.5Kw (2.0HP)
= 8.0A

Cell 15G = 17.5VDC 6A
25G = 17.5VDC 9A
35G = 17.5VDC 12A
45G = 17.5VDC 15A
70G = 17.5VDC 21A

OVERLOAD PROTECTION:

- Electronic current limiting on Cell output (all models).
- Replaceable 10A slow blow fuse.

Cell Fuse - 1.25 Amp for 15G, 25G, 35G.
2 Amp for 45G and 70G.

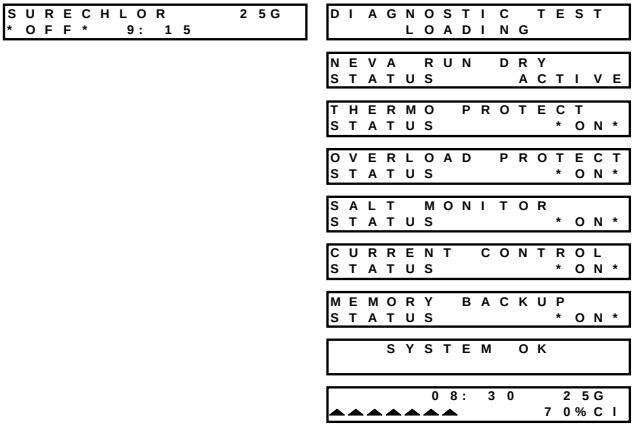
APPROVALS

- All Poolrite Surechlor 4000 Salt Water Chlorinators have been fully tested and approved by the QLD Electrical Safety Office and have been issued with a AS/NZS 3136 Certificate of Approval.
- The Power Pack Enclosure is rated as complying with IP24 as per AS1939 and as such can be legally installed within the designated Pool Zone as defined in section 7 of AS/NZS 3000 Wiring Rules.

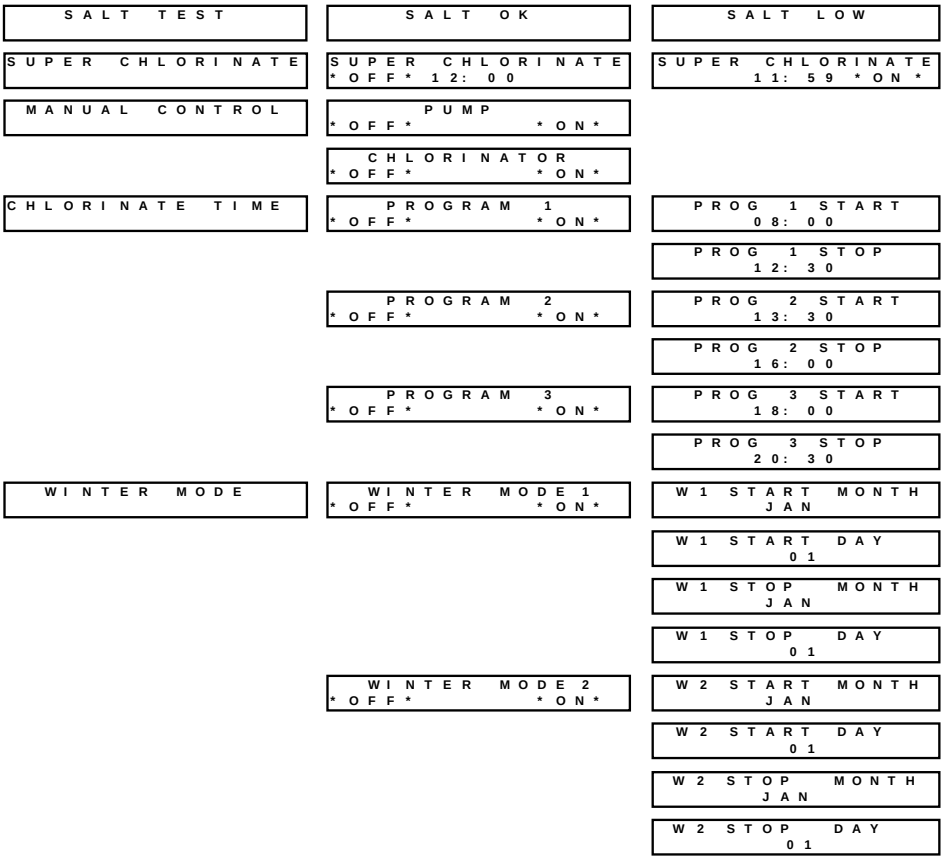
Poolrite Equipment Pty. Ltd. reserves the right to change these specifications without prior notification.

APPENDIX A — MENU TREE

START UP DIAGNOSTICS



MENU TREE



SETUP	BEEPER *OFF* *ON*
	SET YEAR 2004
	SET MONTH JAN
	SET DAY 01
	SET TIME 08:30
	VERSION No. 2.1
	MODEL SELECT 0003
	VENDOR NUMBER 07 3323 6555
ACCESSORIES	**Refer to www.poolrite.com.au for upcoming features**
SYSTEM HISTORY	SALT LOW 150 HOURS
	DRY CELL 050 HOURS
	PUMP NRD 05 STOPS
	OVER CURRENT 05 STOPS
	OVER TEMP 05 STOPS
	SERVICE TIME 1055 HOURS