

12-JUN-2008 Notification

LABEL

COMPU-CHLOR CPA300 ELECTROLYTIC CHLORINATOR
CHLORINE GENERATING DEVICE
DOMESTIC
FOR RESIDENTIAL POOLS AND SPAS
KEEP OUT OF REACH OF CHILDREN
**REGISTRATION NO. 28750 PEST
CONTROL PRODUCTS ACT**

READ THE LABEL AND OWNER'S MANUAL BEFORE USING
Can treat a maximum volume of 40,000 litres

THE COMPU-CHLOR CPA300 ELECTROLYTIC CHLORINATOR CONTAINS
A POWER SUPPLY AND A CELL.

Controls bacteria and algae in swimming pools and spas.
Maximum output of hypochlorous acid equivalent to 0.126kg of free available
chlorine per day.

For swimming pools, a range of 1-3ppm of free available chlorine must be
maintained.

For spas, a range of 3-5ppm of free available chlorine must be maintained.

WARNING: Improper installation or operating the Compu-Chlor CPA300
electrolytic chlorinator

without water flow through the cell can cause a build up of flammable gases,
which can result in FIRE OR EXPLOSION.

Notification Change

~~Compu Pool Products
88 Spencer Street
Nerang QLD 4211
Australia~~

Tiffany Holdings PTY LTD D.B.A. Compu Pool Products
P.O. Box 670
Nerang Queensland 4211
Australia

Somagent Synergies Inc.
129 de Touraine,
St-Lambert, QC J4S 1H3
Canada
Phone: 514-928-4499

REPLACEMENT CELL LABEL

**COMPU-CHLOR CPA300 ELECTROLYTIC CHLORINATOR
REPLACEMENT CELL A300C**

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Replacement cell for the chlorine generating device Compu-Chlor CPA300 electrolytic chlorinator.

REGISTRATION NO. 28750 PEST CONTROL PRODUCT ACT

This cell must only be used on this model of electrolytic chlorinator. Read the label and the owner's manual for the COMPU-CHLOR CPA300 ELECTROLYTIC CHLORINATOR before use.



'Technology in Harmony with Nature'

CPA Series Model Compu-Chlor CPA300



Owner's Manual

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SAFETY INSTRUCTIONS

Congratulations on your recent purchase of a Compu Pool Product Salt Water Generator. Please take a moment to read through the entire manual before installing your new unit. Your generator must be installed and operated as specified.

**IMPORTANT SAFETY INSTRUCTIONS. READ AND FOLLOW ALL INSTRUCTIONS.
SAVE ALL INSTRUCTIONS.**

WARNING: Failure to heed the following warnings and the previous label can result in permanent injury, electrocution or drowning.

- **WARNING:** To reduce the risk of injury, do not permit children to operate this device
- **WARNING:** Heavy pool (and/or spa) usage, and higher temperatures may require higher chlorine output to maintain proper free available chlorine residuals
- If additional chlorine is required due to heavy bather loads, use sodium hypochlorite to maintain an appropriate chlorine residual in the water
- Maintaining high salt and chlorine levels above recommended range can contribute to corrosion of pool (and/or spa) equipment.
- The life of the electrolytic cell is 12,500 hours, under normal use conditions
- **DO NOT** add pool (and/or spa) chemical directly to the skimmer. This may damage the cell.
- Check the expiry date of the test kit as test results may be inaccurate if used after that date.
- When replacing the cell, only use replacement cells having a label that clearly states that it is the replacement cell for the chlorine generating device Compu-Chlor CPA300, REGISTRATION NUMBER 28750, PEST CONTROL PRODUCTS ACTS.
- Follow all aspects of the local and National Electrical Code(s) when installing Compu-Chlor, model CPA300.
- **Note:** For outdoor pools, chlorine residuals can be protected from destruction by sunlight by addition of stabilizer (cyanuric acid).
- For proper sanitation, spas must be completely drained periodically. The number of days between **COMPLETE SPA DRAINAGE** is equal to the volume of spa water in litres, divided by 10 times the maximum number of daily spa users. Refill spa with water and repeat **DIRECTIONS FOR USE** of the device.

Health and Hyperthermia warnings for spa devices:

- People with a medical condition should consult a physician before entering pool or spa water.
- Maximum spa water usage temperature is 40°C. Bathing in spa water at 40°C should not exceed 15 minutes.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions of the label. The user assumes the risk to persons or property that arises from any such use of this product.

COMPU-CHLOR CPA300 OWNERS MANUAL

OPERATION- COMPU-CHLOR CPA300

The chlorinator Power Unit is to be mounted at least 1.0 metre above ground level and if possible protected from direct weather. The Chlorinator Electrolytic Cell is to be fitted into the return to pool line after the pump and filter. Water flow through the cell can be in either direction and ideal installation is upright. The cell lead is to be connected to the junction box under the power unit, ensuring the colored wires are matched correctly and the connectors are tight.

Pool salt is then added to the spa or pool to give a salinity reading.

SUPER MODEL:

Plug the Chlorinator Power Unit into the same 115/ 230 volt AC supply as the filter pump. With the Cell switch turned on the Chlorinator will now operate when filter pump is running.

DELUXE MODEL:

Plug the Chlorinator Power Unit into 115/230 volt AC supply and plug filter pump into the outlet underneath the Chlorinator Power unit.

Set the time clock to the desired running times and turn Cell switch to on.

To override the time clock, switch to timer manual for continual running of filter pump.

The chlorine monitor will alternate between left and right every 12 hours of operation, which prevents the build up of white calcium on the cell plates.

For maximum efficiency adjust the chlorine Production dial to read normal in the green zone on the chlorine Monitor. If Monitor reads in the red zone, check for too high salt content. If Monitor cannot reach the green zone, check for low salt.

For best pool and spa chlorination results, run the Chlorinator for two or more periods a day (mid morning and mid afternoon). A total of 2-8 hours per day is required depending on pool or spa size and climate.

MAINTENANCE

SALT AND CHEMICALS IDEAL POOL CHEMISTRY READINGS

	Swimming Pools	Spas
Free Available Chlorine	1.0 – 3.0 ppm	3.0 – 5.0 ppm
pH	7.2 – 7.8	7.2 – 7.8
Total Alkalinity	100 – 120 ppm	100 – 120 ppm
Calcium Hardness	200 – 300 ppm	150 – 200 PPM
Stabilizer (Cyanuric Acid)	30 – 100 ppm (min.)	30 – 100 ppm (min.)

1. **Chlorine Stabilizer (cyanuric acid):** Chlorine Stabilizer is needed to maintain proper levels of chlorine. Most unstable chlorine is destroyed by the UV radiation from the sun within 2 hours. Chlorine stabilizer must be maintained between 40 – 100 PPM.

2. **Nitrates:** Nitrates can cause extremely high chlorine demands and will deplete chlorine from your swimming pool. In some cases Nitrates may even lower your chlorine levels to zero. Your local pool professional can test for Nitrates. Make sure Nitrates are not present in your pool.
3. **Metals:** Metals can cause loss of chlorine. Also, metals can stain your pool. Have your local pool professional check for metals and recommend methods of removal.
4. **Chloramines:** Chloramines should not be present in pool water. When organic materials combine with Free Chlorine, Chloramines are formed. This ties up the Free chlorine in your pool and does not allow the chlorine in your pool to disinfect. Chloramines also cloud pool water and burn the eyes. (Super Chlorinate (shock) to remove Chloramines at the initial startup of the pool).
5. **pH Levels:** pH produced by the Chlorinator is close to Neutral pH. However, other factors usually cause the pH of the pool water to rise. Therefore, the pH in a pool chlorinated by the Chlorinator tends to stabilize at approximately 7.8. This is within national standards. If the pool pH rises above 7.8 have a pool professional test to see if other factors such as high Calcium Hardness or Total Alkalinity are the cause and then balance accordingly.
6. **Total dissolved Solids (TDS):** adding salt to pool water will raise the TDS level. While this does not adversely affect the pool water chemistry or clarity, the pool water professional testing for TDS must be made aware salt has been added for the chlorinator system. The individual performing the TDS test will then subtract the salinity level to arrive at the correct TDS level.

USING THE FRONT CONTROL PANEL

MAIN SWITCH

1. **ON / OFF:** For normal operation, the Main Switch should be left in the on position. In this position the Compu-Chlor CPA300 will produce chlorine according to the desired output %. Simply press the button again to turn the unit off.
2. **SELECT BUTTON:** This button will allow access to the timer settings. When using this function the button needs to be pushed in for 3 seconds before the select button will respond, this is provided as a safety device.
3. **SUPER CHLOR:** When you have an abnormally high bather load, a large amount of rain, a cloudy water condition which needs a large amount of purification to be introduced, simply press the SUPERCHLOR button. This electronically "super chlorinates" the water for 24 hours or until the power has been turned off.
4. **WINTER MODE:** When you not using your pool during the winter months, it is advisable to activate the winter mode, simply press the WINTER MODE button. The Winter Mode will reduce the output of chlorine to 50% of set output, for example, if output is 80% winter mode is 40%. Reducing the chlorine output during periods when the pool is not in use will help maximize the life of the cell.
5. **MANUAL PUMP OVERRIDE:** To override the time clock, switch the unit off, via the power button. Once the unit is off, simply press the right chlorine output button. This will allow the filter pump to continue running without chlorination.
6. **CHLORINE OUTPUT LEVELS:** Pressing the arrow button left or right will change the CHLORINE PRODUCTION in 10% increments.
7. **SETTING THE TIME:** There are two timer functions to allow two filtration cycles per day. Set the timer cycles to meet your desired running time via the chlorinator menu / select button. When setting the timer use the up and down arrow keys to move the cursor and select the correct time.

INDICATOR'S LED's

POWER: When illuminated, the Compu-Chlor CPA300 unit has input power activate.

POLARITY 1 & 2: When illuminated, it indicates which side of the cell is producing.

NO FLOW: When illuminated, the flow switch has detected no water flowing and the Compu-Chlor CPA300 unit has stopped generating chlorine.

HIGH SALT: When illuminated, the salt level is too high. The Compu-Chlor CPA300 unit has an inbuilt regulating system that enables it to continue to produce chlorine with the increased salt content. At this point do not add any further salt and allow the salt content to return to desirable levels.

LOW SALT: When illuminated, the salt level is too low and the unit is generating at low efficiency. Further salt is required, it is advisable to have your salt level professionally checked.

**** DISPLAY PICTURE INSERTED HERE (PICTURE 1)**

ADDING SALT (sodium chloride) TO THE POOL OR SPA

DO NOT add pool/spa chemicals directly to the skimmer. This may damage the cell. Maintaining high salt levels above the recommended range can contribute to corrosion of pool/spa equipment. If the chlorinator has already been installed, it should be turned off before adding salt. Compu-Chlor CPA300 is recommended to run at a salt concentration of 6000 ppm.

For pools it is best to empty the required salt into the shallow end of the pool and run the filter and pump simultaneously while the Compu-Chlor CPA300 chlorinator is off or in manual mode to circulate the water and dissolve the salt. Do not throw the salt bag into the pool or spa as chemicals and inks on the bag can interfere with the water balance.

If the pool has no main drain at the bottom, place a vacuum hose head in the deep end, and sweep the salt toward the vacuum head. The other end of the vacuum hose should be placed in the skimmer box. Run the filter and pump with the Compu-Chlor CPA 300 chlorinator OFF to circulate the undissolved salt in the water. Quality pool and spa salt, sodium chloride (with low levels of iron and other impurities) should be used, with finer grades of salt usually dissolving faster. Salt may take 24 - 48 hours to dissolve in summer and longer in winter.

SALT LEVEL

Use the chart, marked chart 1 to determine how much salt in Kgs needs to be added to reach the recommended levels. Use the equations below (measurements are in feet/gallons and meters/litres) if pool size is unknown.

Pool and/or Spa Volume Table – Working Out How Much Salt is Required

	Gallons (pool size in feet)	Litres (pool size in meters)
Rectangular	Length x Width x Average Depth x 7.5	Length x Width x Average Depth x 1000
Round	Diameter x Diameter x Average Depth x 5.9	Diameter x Diameter x Average Depth x 785
Oval	Length x Width x Average Depth x 6.7	Length x Width x Average Depth x 893

The ideal salt level is between 3000- 6000 ppm, with 6000 ppm being optimal. If the level is low, determine the number of litres (gallons) in the pool and add salt according to chart 1. A low salt level will reduce the efficiency of the Compu-Chlor CPA300 and result in low chlorine production. A high salt level can cause a salty taste to your pool. In addition, operating the unit outside of the recommended salt range will rapidly reduce the longevity of the cell. The salt in your pool/spa is constantly recycled and the loss of salt throughout the swimming season should be small. This loss is due primarily to the addition of water because of splashing, backwashing, or draining (because of rain). Salt is not lost due to evaporation.

If salt content is too high you will need to reduce the level of water in your pool/spa and refill the pool/spa with fresh water that has not been diluted with salt.

To Initially start a pool with the correct amount of salt,
Add Salt to the pool at the rate of:

6 grams / 0.006 Kilograms of salt for every 1 Litre of water

or

0.06 Pounds of salt for every imperial Gallon

or

0.22 ounces / 0.05 Pounds of salt for every 1 US Gallon of water.

Chart 1	Kg of Salt Needed to Obtain 6000 ppm in Pool or Spa (Litres)								
	1000	5000	10000	15000	20000	25000	30000	35000	40000
Salt Concentration Before Addition (ppm)									
0	6	30	60	90	120	150	180	210	240
500	5.5	27.5	55	82.5	110	137.5	165	192.5	220
1000	5	25	50	75	100	125	150	175	200
1500	4.5	22.5	45	67.5	90	112.5	135	157.5	180
2000	4	20	40	60	80	100	120	140	160
2500	3.5	17.5	35	52.5	70	87.5	105	112.5	140
3000	3	15	30	45	60	75	90	105	120
3500	2.5	12.5	25	37.5	50	62.5	75	87.5	100
4000	2	10	20	30	40	50	60	70	80
4500	1.5	7.5	15	22.5	30	37.5	45	52.5	60
5000	1	5	10	15	20	25	30	35	40
5500	0.5	2.5	5	7.5	10	12.5	15	17.5	20
6000	0	0	0	0	0	0	0	0	0

ELECTROLYTIC CELL

The Cell operates most efficiently when it is clean, so the auto cell cleaning will keep the cell free of the white calcium build up common to standard chlorinators. However checking and possibly cleaning any foreign buildup every six months will maintain full chlorine output and prolong cell life.

To remove the Cell, isolate the 115/230 volt power supply to filter pump and chlorinator. Unscrew the large PVC ring at top of Cell and lift out the Cell.

To clean the Cell, if any foreign buildup is visible, immerse the cell plates into a solution of five parts water and one part hydrochloric acid. Leave for a few minutes then hose off until cell plates are clean. Do not submerge cell head when cleaning.

Always check that the cell connections at the junction box under the power unit are tight and correctly matched when replaced if disconnected for cleaning.

WARNING
FOR QUALITY AND VALUE – INSIST YOUR CHLORINATOR IS ONLY SERVICED WITH
GENUINE REPLACEMENT PARTS AVAILABLE FROM MANUFACTURER – COMPU
POOL PRODUCTS

HELPFUL HINTS

When the chlorine Monitor is indicating in the green normal region and the Cell is clean, then the chlorinator is producing chlorine. However, if the pool remains cloudy or the chlorine residual tests low, then the chlorine being produced is lost due to high chlorine demand. To reduce the chlorine demand, check the pH reading and check for low or high stabilizer reading. If tests show correct, then a shock treatment is advised with an oxidizer agent. Generally, superchlorination is not necessary if the pool is maintained at correct levels.

DEFINITIONS

ALGAE:	Plant-like organisms which grow in water. Especially active in summer conditions, where chlorine disinfectant level is too low to destroy them. Algae may be green, brown or black (Black Spot) in colour.
CHLORINE DEMAND:	The amount of chlorine that should be added to the water to provide proper bacteria and algae control.
CHLORINE RESIDUAL:	The amount of chlorine left over, after the “demand” has been met.
COMBINED CHLORINE:	Weak chlorine which is combined with the contaminants in the water.
FREE CHLORINE:	Active chlorine in the water with the potency to destroy contaminants.
SHOCK TREATMENT:	The removal by means of oxidation of those materials that have chlorine demand.
SUPERCHLORINATION:	An extra large amount of chlorine added to the water.

TROUBLE SHOOTING

PROBLEM

(1) CHLORINE RESIDUAL
Low or nil

POSSIBLE CAUSE

- Insufficient running times
- pH too high or low
- Insufficient stabilizer
- Cell needs cleaning
- Check chlorine production

(2) CHLORINE PRODUCTION
Low or nil

- Chlorine dial turned down
- Salt content below 0.25%
- Cell needs cleaning
- check Cell connections at junction box under unit
- Check fuse on power unit
- Check filter pump running
- Check water flow through Cell is sufficient

(3) WATER FLOW THROUGH
CELL IS LOW

- Check for air in system
- Check operation of pump
- Check filter is clean
- Check water level of pool
- Check for blockage in System

WARRANTY

Compu-Chlor CPA300 automatic salt water generator model Compu-Chlor CPA300 carries the following warranty should fault occur due to faulty manufacture or materials.

Compu Pool Products warrants the original purchaser of the unit for a period of 5 full years on the power controller and on the cell from the date of purchase by the owners, should examination disclose to its satisfaction the unit has failed due to faulty manufacture or materials.

The warranty may be void if the following occurs:

1. Damage to the unit beyond Compu Pool Product's control.
2. If correct pool chemistry is not maintained.
3. The Power Unit and Cell are not installed correctly by any person other than a person authorized to do so by Compu Pool Products or its agent.
4. All wearing parts which must be regularly checked and replaced when naturally worn.
5. The Electrolytic Cell is not cleaned regularly or cleaned by any other method other than by the method recommended by the manufacturer.
6. The Chlorinator Power Unit and Cell is serviced by any other person other than a person authorized to do so by Compu Pool Products or its agent.

This warranty is applicable to workmanship and materials only. Compu Pool Products or its agent will replace at no charge all parts return freight paid, which display faulty workmanship or materials.

Compu Pool Products or its agent accept no responsibility for loss, damage or injuries to person or property arising from warranty failure of equipment, or installation of that equipment, unless with the authority of Compu Pool Products or its agent. This warranty shall not extend to any expenditure otherwise incurred.

Replacing the Cell

When replacing the cell, only use replacement cells having a label that clearly states that it is a genuine replacement cell for the Compu-Chlor CPA300.

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.