

The logo for Hurlcon, featuring the word "hurlcon" in a bold, black, sans-serif font. A blue arc is positioned above the letters "u", "r", and "l", and another blue arc is positioned below the letters "c", "o", and "n".

## Automatic Controllers

**RC-6C** ORP (Chlorine) Controller

**RC-6CT** ORP (Chlorine) Controller with timer

**RC-6P** pH Controller

**RC-6PT** pH Controller with timer

**RC-6ST** for controlling salt chlorinator

**RC-7 Mk.II** pH and ORP (Chlorine) Controller

**RC-7 T Mk.II** pH and ORP (Chlorine) Controller



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Information and specifications subject to change without notice.

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**Dear Customer,**

Congratulations, you have made a good choice in purchasing a Rola Chem controller.

Your Rola Chem machine will monitor and control the pH or Sanitiser level or both.

This depends on the model you have chosen.

Swimming pool chemistry is quite interesting and dynamic. There is no one setting that is right for every swimming pool or spa. Let the Rola Chem machine settle down over a couple of days and then if necessary alter the setting to suit your pool or spa. In the automatic models, the chlorine level is controlled using the ORP principle, which is a better measure of the sanitising ability of chlorine.

- ORP (Redox) measures **ACTIVITY** in millivolts (mV) of all oxidising chemicals. Test Kits and strips measure **QUANTITY** of Chlorine/Bromine only.
- ORP of 650mV or above means water is clean and safe, regardless of qty. of chlorine/bromine, provided ORP sensor is clean, calibrated and functioning OK.
- ORP readings can vary depending upon water chemistry like pH, TDS. T.A. and stabiliser levels, ensure that these levels are correct. Consult your shop/technician.

If large quantities of chemicals are dumped in the pool water, this excess quantity should be circulated well and then, allowed to settle down before this machine starts to give true readings.

If you have any questions please contact your Hurlcon supplier or us directly.

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## STARTING UP

Before starting up your Rola Chem controller, it is advisable that the pool water be balanced.

Recommended chemical ranges (depending on pool location and pool surface) are:

**CHLORINE:** 1 - 3ppm    pH 7.2 - 7.8

**STABILISER:** 30 - 50 mg/L

**TOTAL ALKALINITY:** 80 - 150 mg/L

**CALCIUM HARDNESS:** 90 - 300 mg/L

**PHOSPHATES FREE**

## INSTALLATION

PLEASE READ ALL THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING & OPERATING THE UNIT AND LEAVE THE MANUAL ON SITE FOR OWNER/OPERATOR'S USE

**ROLA CHEM SYSTEMS SHOULD OPERATE ONLY WHEN THE POOL FILTER IS OPERATING. THE UNIT MUST NOT BE CONNECTED WITHOUT ADEQUATE EARTH CONNECTIONS AND A VOLTAGE OTHER THAN 230-250V**  
(Unless other voltage specified)

**IF THE MAINS ELECTRICITY SUPPLY CABLE IS DAMAGED IN ANY WAY PLEASE RETURN THE MACHINE TO THE SUPPLIER FOR REPLACEMENT.**

Before installing the unit in position on the wall or post, the length of the PVC tubing provided should be measured and taken into consideration. To avoid loss of water from the system, close all stop valves before cutting any lines.

### Connection of lines (see illustration page 5)

Install the "T" pieces into the "return" line. Cut an appropriate piece out of this line and glue the mixing chamber or "T" piece in position, using a PVC adhesive. Thread the PVC tube through the hole in the cap or shoulder of the chemical container and fit the non-return or check valve and the weight. Ensure that the non-return valve is fitted correctly (arrow indicates the direction of flow) Drop the weight, with the non-return valve into the bottom of the container.

**TIP:** Soaking the ends of the PVC tubing in hot water or gentle heating with a lighter makes it easier to push onto the barb. When installing chemical containers (especially acid), in filter enclosures, which have no ventilation, it is recommended that the hole in the cap of the container is cut to fit tightly around the tubing, so that fumes from the acid or chlorine will not corrode the equipment. It will be necessary to drill a second hole in the cap fitted tightly with a length of tubing which should then be vented outside the filter enclosure. This procedure is recommended only where the filter enclosure has no ventilation and is to protect the equipment.

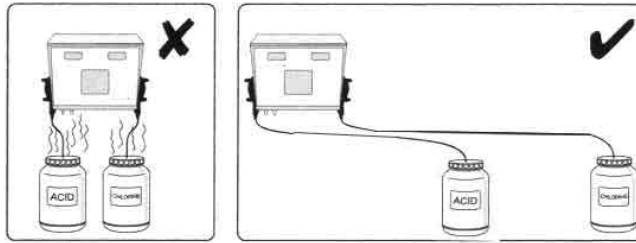
**IMPORTANT: Rola Chem pumps dose against a maximum pressure of 150-175 kPa (20-25 psi), avoid excessive pressure situations such as:**

**In-floor cleaners (when using for pool applications): The recommended position of the injection point and probe is on the suction line.**

- ACID SHOULD BE DILUTED MINIMUM 1:2, MORE DILUTION IS OK
- ALWAYS ADD ACID TO WATER (NOT WATER TO ACID)
- NEVER MIX CHEMICALS
- CHEMICALS MUST BE STORED IN ACCORDANCE WITH RELEVANT STANDARDS AND DANGEROUS GOODS CODES. CONSULT YOUR AUTHORISED BUILDER OR POOL SHOP TECHNICIAN FOR ADVICE.

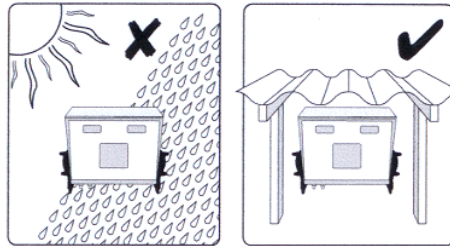
**PLACEMENT OF CHEMICALS, ROLA CHEM AND CONECTIONS.**

**Placement of Chemicals**

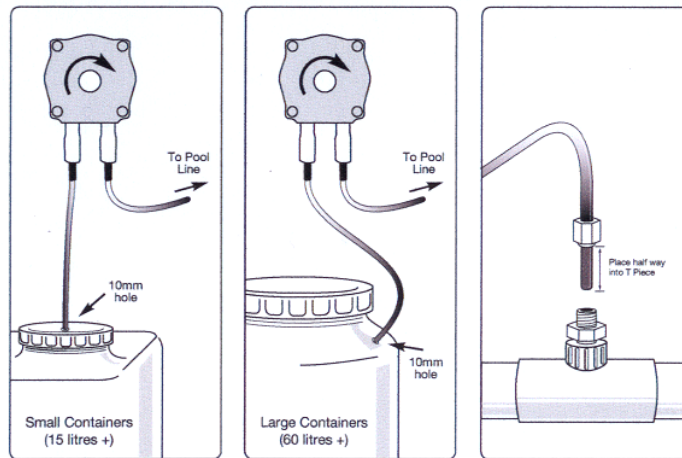


**\*\*\*Chemicals MUST be stored and stored apart in accordance with Relevant Standards and Dangerous Goods Codes. Consult your authorized builder or pool shop technician for advice.**

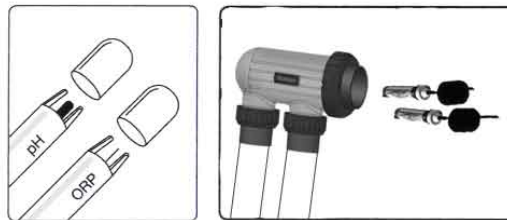
**Placement of Rola Chem Unit**



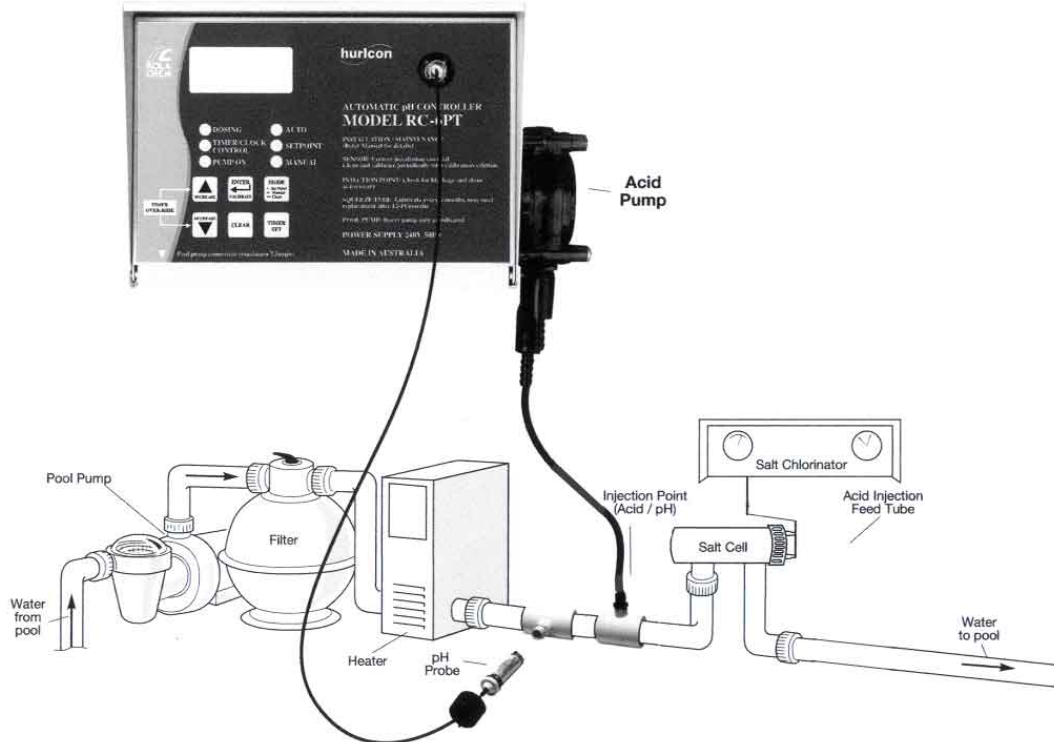
**Connection of Lines**



**Connecting Probes**



**RC-6P – pH CONTROLLER – TYPICAL INSTALLATION (Also available with Timer RC-6PT)**

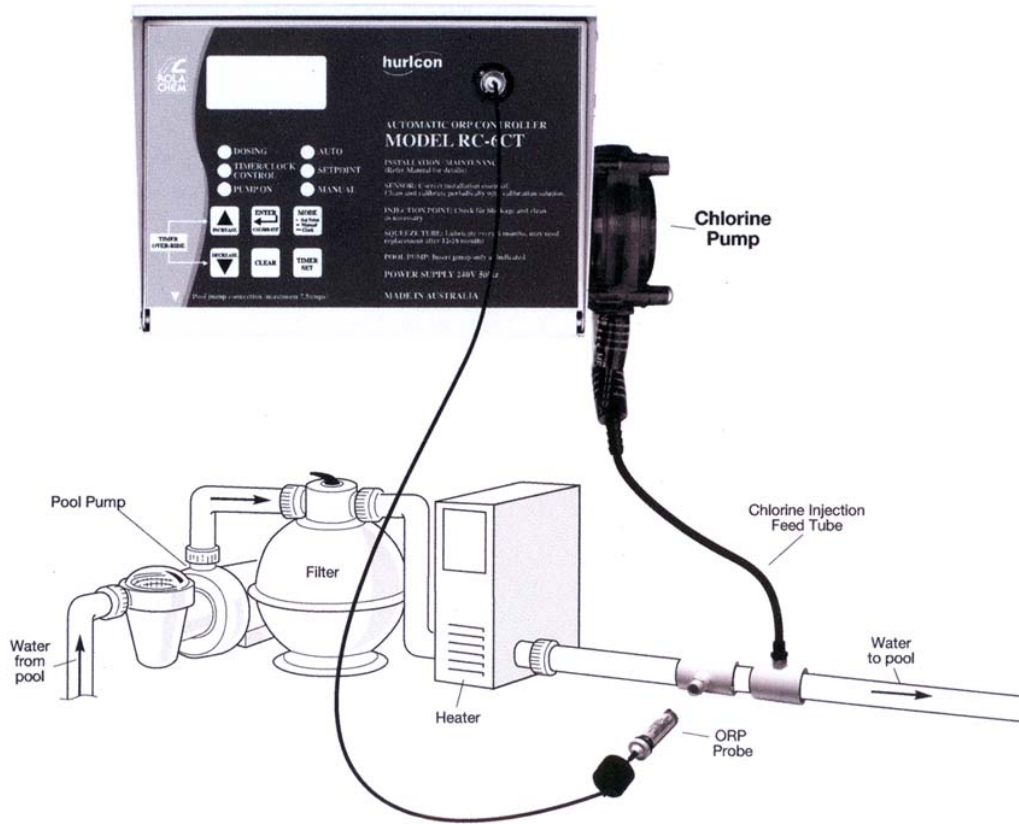


**PLEASE NOTE:**

1. If installed to run with other systems like SALT CHLORINATOR or IONISER the PROBES (sensors) must be about 400mm before (upstream) these machines or in the suction line, if space is insufficient.
2. PROBES (sensors) are to be installed HORIZONTALLY to the flow of the water.
3. The injection of CHEMICALS can be before or after these machines in the return line depending on the Salt Chlorinator manufactures recommendations.

(Please ask for extra T-Pieces for such installations)

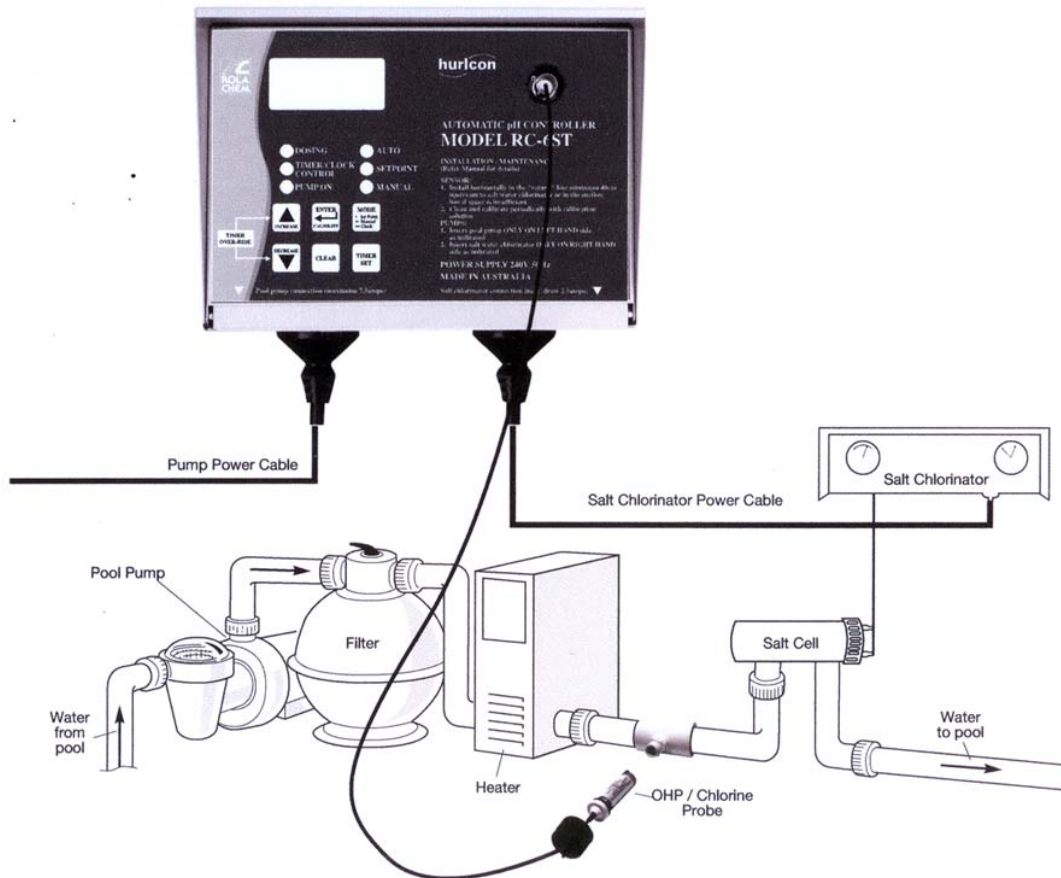
**RC-6CT – ORP CONTROLLER – TYPICAL INSTALLATION (Also available without Timer RC-6C)**



**PLEASE NOTE:**

1. If installed to operate with other systems like SALT CHLORINATOR or IONISER the PROBES (sensors) must be about 400mm before (upstream) these machines or in the suction line, if space is insufficient.
2. PROBES (sensors) are to be installed HORIZONTALLY to the flow of the water.
3. The injection of CHEMICALS can be after these machines in the return line.  
(Please ask for extra T-Pieces for such installations)

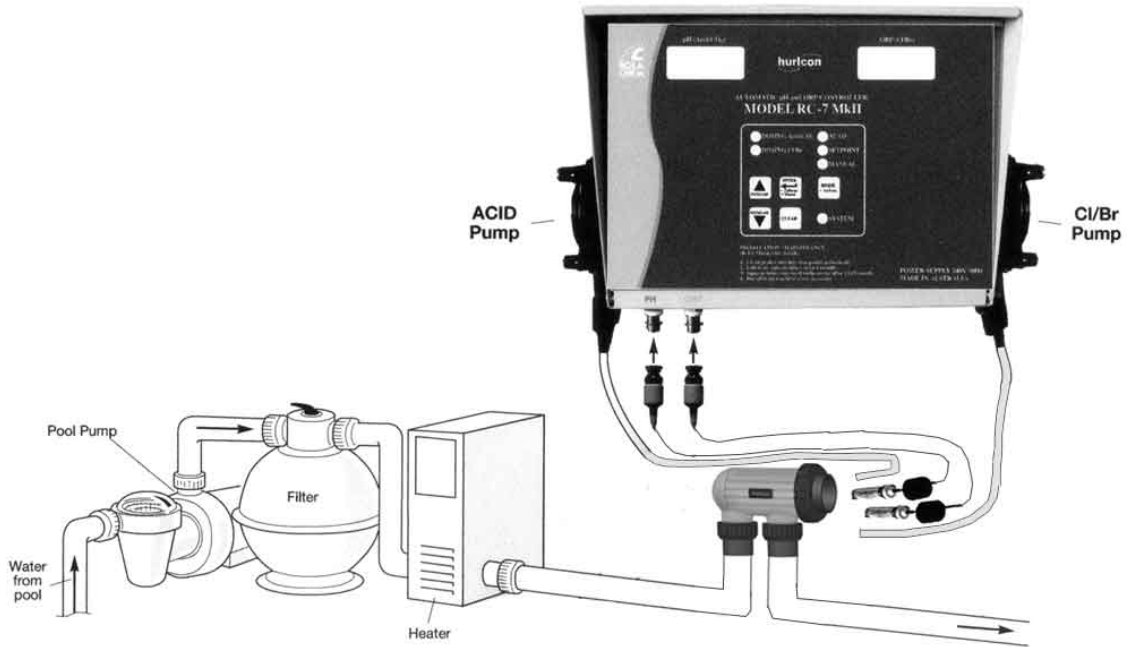
## RC-6ST – TO CONTROL SALT CHLORINATOR – TYPICAL INSTALLATION



### PLEASE NOTE:

1. The ORP probe must be about 400mm before (upstream) to the salt cell, or in the suction line if space is insufficient. This is to avoid electrical interference between the salt chlorinator and the probes.
2. PROBES (sensors) are to be installed HORIZONTALLY to the flow of the water
3. In some situations electrical interference may still occur between the salt chlorinator and the probes. If so please contact us.

**RC-7 & 7 T MK. II – AUTOMATIC pH AND ORP/REDOX CONTROLLER – TYPICAL  
INSTALLATION**



**PLEASE NOTE:**

1. Each time RC-7 Mk.II starts up it will be on standby for 5 minutes. The display shows: STBY 5:00 and will countdown to 0:00 minutes

This allows time for accurate sensing and proper mixing before dosing commences. For service needs, the standby can be over-ridden by pressing ENTER CLEAR together.

2. If installed to run with other systems like SALT CHLORINATOR or IONISER the PROBES (sensors) must be about 400mm before (upstream) these machines or in the suction line, if space is insufficient.
3. PROBES (sensors) are to be installed HORIZONTALLY to the flow of the water.



**RC-7 & 7 T MK. 11 – SPECIAL FEATURES**

Safety options available on one or both pH and ORP channels:  
 (Safety can be re-programmed or cancelled if necessary, please contact Hurlcon)



If installed on both channels, then:

	*Lower Limit	*Upper Limit
pH (Channel 1)	6.5	8.5
ORP (Channel 2)	400	900

\*Limits can be altered if necessary

**pH Reading**

If the pH reading on the machine is 6.5 or lower, or 8.5 or higher, then the machine will suspend dosing and sound a beeper (alarm).

Screen will display:   (Channel 1 is for the pH side and 'LO' or 'HI' will appear as relevant)

 (for Error)

However if ORP is low, the machine will continue to dose chlorine as needed, to prevent the pool water going green.

**ORP Reading**

On the ORP side the same happens if the reading is 400 or lower or 900 or higher. This indicates the levels are incorrect and need to be rectified before the machine takes over automatically.

The beeper (alarm) sounds for 30 seconds and then goes silent as sometimes the continuous sound can be a nuisance. However the ERR (error) message will continue to flash on the screen until the fault(s) are rectified

**Possible causes for faults**

<p><b>Low Chlorine</b></p> <ul style="list-style-type: none"> <li>• Chlorine drum is empty</li> <li>• Filter: run timing is not sufficient or requires back washing</li> <li>• Stabiliser level is low (outdoor pools)</li> <li>• pH is too high</li> <li>• Poor water circulation</li> <li>• Injection point at delivery end is blocked</li> <li>• Dosing pump is undersized</li> <li>• Probe malfunction</li> </ul>	<p><b>High Chlorine</b></p> <ul style="list-style-type: none"> <li>• pH is too low</li> <li>• High total dissolved solids (TDS)</li> <li>• Excess stabiliser level (outdoor pools)</li> <li>• Oversized dosing pump</li> <li>• Probe malfunction</li> </ul>
<p><b>Low pH</b></p> <ul style="list-style-type: none"> <li>• Poor water circulation</li> <li>• Excessive rainfall (neutralising TA)</li> <li>• Faulty dosing pump</li> <li>• Probe malfunction</li> </ul>	<p><b>High pH</b></p> <ul style="list-style-type: none"> <li>• Acid drum is empty</li> <li>• Acid is over-diluted</li> <li>• Filter: run timing is not sufficient or requires back washing</li> <li>• Probe malfunction</li> </ul>

## OPERATIONS

A Liquid Crystal Display (LCD) displays the current pH (RC-6P/6PT) or ORP (RC-6C/6CT) or both pH and ORP level (RC-7 & 7 T Mk.II) as well as set points, manual dosing times, calibration values and the current time / timer (models RC-6PT, 6CT, 6ST)

All control is achieved via the touch keypad which consists of six keys:

**MODE:** Change the operating mode: Set Pt./Manual/Clock (Clock/timer only on RC-6 & 7 T models)

**CLOCK/TIMER SET:** Set current time/date and Timer (On units RC-6PT, 6CT & 6ST)

**ENTER/CAL:** Accept data entry / run the probe adjustment (calibration)

**CLEAR:** Cancel and return to previous operation

**UP:** Increase displayed value/Over-ride Timer (No timer on RC-7 & 7T Mk.II, 6P & 6C)

**DOWN:** Decrease displayed value/Over-ride Timer (No timer on RC-7 & 7T Mk.II, 6P & 6C)

**AUTO:** The controller normally runs in Auto mode and this is the default mode when the controller starts up. In Auto mode the controller is continually testing the pH, ORP (chlorine activity) or pH & ORP of the water and automatically operating the dosing pump or salt chlorinator as required to maintain the ideal chemical balance (as per the set points)

**SETPOINT:** In this Mode the setpoint for the pH or ORP can be altered as required.

**MANUAL:** The dosing pump can be manually started to run for as long as required. Manual dosing is intended as an additional boost to the normal automatic control

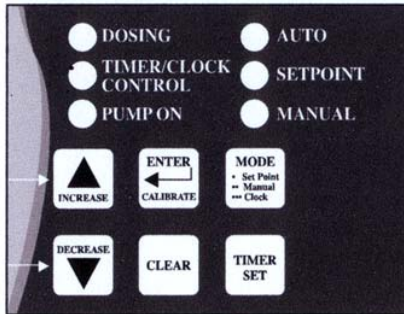
### NOTE:

**After entering/changing any settings ENTER must be pressed to up date the data in memory.**

**Wait till SAVE appears on screen before pressing CLEAR**

## CHANGING THE SET POINT

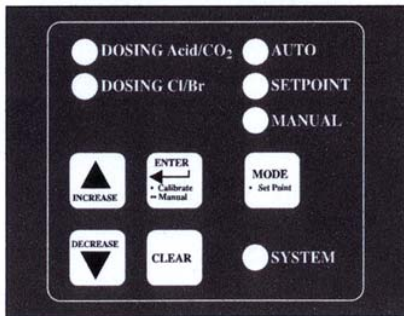
The factory **Set Points** are: pH 7.70, ORP 700. As pool construction and water conditions vary, adjust the **Set Points** if necessary. It is good practice to run the machine for a few days and test the chlorine and pH levels. If either levels are not exactly where you want them, fine-tune the settings as required. Change the Set Points only from the SET POINT Mode function and NOT from the CAL function.



Keypad on the RC-6C and RC-6P

### MODELS: RC-6P, PT, RC-6C, CT

1. Press the **MODE** button ONCE for pH or ORP Set Point
2. Press **▲** to increase or **▼** to decrease the Set Point level
3. Press **←** to accept the new level
4. Wait until SAVE appears on the screen
5. Always remember to press **CLEAR** when done to return to auto



Keypad on the RC-7 Mk.II

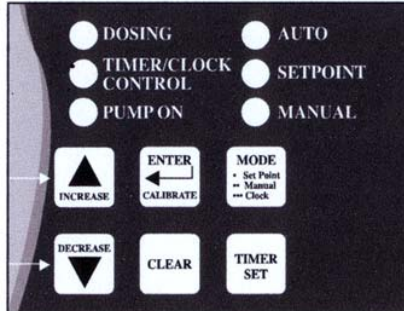
### MODEL: RC-7 & 7T Mk.II,

1. Press the **MODE** button ONCE for pH Set Point
2. Press the **MODE** button TWICE for ORP Set Point
3. Press **▲** to increase or **▼** to decrease the Set Points level
4. Press **←** to accept the new level
5. Wait until SAVE appears on the screen
6. Always remember to press **CLEAR** when done to return to auto

## MANUAL DOSING

Manual function allows the automatic function to be overridden in case you want to dose the chemical for a given period of time.

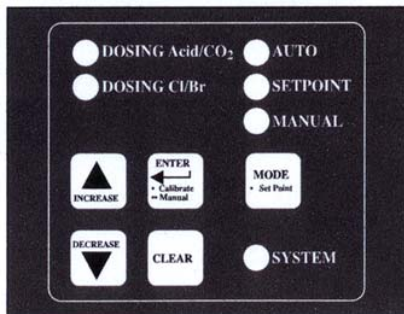
Once the pump has run for the full time, the controller will automatically revert to AUTO MODE. The manual dose can be stopped at any time by pressing CLEAR, the machine then reverts to AUTO MODE. At the end of manual dosing, the dosing pump or chlorinator may continue to run because when the controller reverts to AUTO MODE, the control program may decide to run the pump.



Keypad on the RC-6C and RC-6P

### MODELS: RC-6P, PT, RC-6C, CT

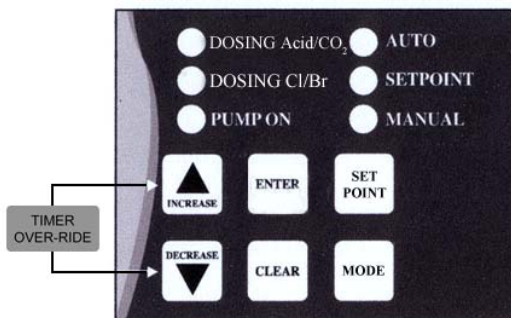
1. Press the **MODE** button TWICE for pH or ORP Manual Dosing
2. Press **▲** to increase or **▼** to decrease Manual Dosing times
3. Press **←** to accept the new level
4. Wait until SAVE appears on the screen
5. Always remember to press **CLEAR** when done to return to auto
6. Manual dosing commences in minutes, countdown appears on screen.



Keypad on the RC-7 Mk.II

### MODEL: RC-7 & 7T Mk.II

1. **To dose acid** manually press **←** or **MODE** on 7T model  
Use **▼** arrow until **nAnL** appears on left screen.  
Press **←** TWICE
2. **To dose chlorine** manually press **←** or **MODE** on 7T model  
Use **▼** arrow until **nAnL** appears on right screen. Press **←** TWICE
3. Time appears in **Hours and Minutes**. Change to desired manual dosing with **▲** **▼**
4. Press **←** screen shows **SAVE** and dosing commences.
5. Wait until SAVE appears on the screen. Manual dosing commences, countdown appears on screen.



Keypad on the RC-7T

**NOTE: MANUAL DOSING IS IN HOURS AND MINUTES TO CANCEL MANUAL DOSING PRESS CLEAR TWICE**

## PROBE CALIBRATION







Both the pH and ORP probes/sensors have been factory calibrated. However it is a good practice to check the adjustment for these probes periodically (say 3- 6 months or earlier if required). The probes should be cleaned first (refer under Maintenance page 14 for cleaning) and allowed to settle down for about 4-5 minutes before adjusting/calibrating. Hurlcon provide Easycal calibrating solutions packed with automatic products to assist with calibration. Additional solution is available via Hurlcon as a spare part.

**pH** When the controller is in Auto mode, remove the pH probe from the pipe line (shut off the filter pump, to avoid water spill), clean the probe (see under Maintenance) and place it in a 7.5 pH Easycal Solution (available from Hurlcon) Wait until the display becomes steady. Check the reading, if it is 7.5 (+/- 0.03), no adjustment is required. If it varies adjust as per diagram.







**ORP** When the controller is in Auto mode, remove the ORP probe from the pipe line (shut off the filter pump, to avoid water spill), clean the probe (see under Maintenance) and place it in a 700 ORP Easycal Solution (available from Hurlcon) Wait until the display becomes steady. Check the reading, if it is 700 (+/- 30 mV), no adjustment is required. If it varies adjust as per diagram.

### RC-7 & 7T Mk.II pH Probe

(Refer to Key Pad on Page 9 if necessary)







1. Press the  button ONCE
2. You will see CAL in left hand screen, press  again
3. Press   to adjust the level to 7.5, keeping the probe in the pH Easycal 7.5 Solution
4. Press  wait till SAVE appears then  TWICE to go back to auto mode

### RC-7 & 7T Mk.II ORP Probe







1. Press the  button ONCE
2. You will see CAL in the left hand screen, press  again
3. CAL appears in right hand screen (ORP) side
4. Press   to adjust the level to 700, keeping the probe in the ORP Easycal 700 Solution
5. Press  wait till SAVE appears then  TWICE to go back to auto mode

### RC-6 and RC-6T models pH Probe

(Refer to Key Pad on Page 9 if necessary)

1. Press the  button ONCE
2. You will see CAL in left hand screen, press  again
3. Press   to adjust the level to 7.5, keeping the probe in the pH Easycal 7.5 Solution
4. Press  wait till SAVE appears then  to go back to auto mode

### RC-6 and RC-6T models ORP Probe

1. Press the  button ONCE
2. You will see CAL in the right hand screen, press  again
4. Press   to adjust the level to 700, keeping the probe in the ORP Easycal 700 Solution
5. Press  wait till SAVE appears then  to go back to auto mode

### CLOCK/TIMER SET-UP (RC-6CT, RC-6PT AND RC-6ST ONLY)

This allows the operator to set up the clock and the 'on' and 'off' times for the pool pump and dose. Press TIMER SET button when in AUTO mode to set the Clock and the Timer for the pool pump and dosing time. The Timer/Clock control red light will flash and go out when this function has been completed.

#### CHECK/SET UP CURRENT DAY/TIME

When the TIMER SET button is pressed it displays the current day. Press ENTER, if in-correct, change using the Up/Down arrows. Press Enter, to SAVE and verify current day, ALL appears on screen (All days of the week) Press ENTER to save. Display now shows current time. Press ENTER to SAVE or change time if necessary as above and then press ENTER.

#### SETTING THE TIMER

##### ON TIME

The display will now show T.ON (On time) for 1 second and then display the first ON time for that day. The time may be set using the up and down buttons to any value from 0:00 to 23:59 and press ENTER to SAVE. Also note that the up or down button may be held down for repeats, and after 10 steps, the number will change faster.

##### OFF TIME

The display will now show T.OFF (Off time) for 1 second and then display the OFF time for that day. The time may be set using the up and down buttons as desired. Press ENTER to SAVE.

#### SECOND SET OF ON AND OFF TIMES T2.ON AND T2.OF

The display will now show T2.ON , the second on time. This allows the pool controller to turn on and off twice in one day. After the T2.ON value has been set, T2.OF will appear and the second off time may be adjusted and set. If the second set of On/OFF timings are not required, set the T2 ON to 00 and T2 Off to 00.

#### DISENGAGE THE TIMER

If CONT is selected, the day of week is not changed but the On time will be programmed to 0:00 and the Off time to 23:59 for all 7 days of the week, ie it will run continuously. This will dis-engage the built-in Timer and you can use an external time clock to control the machine. Press the ENTER button to Save the day value.

#### Override Timer




















The Timer can be overridden by pressing any of the 2 keys Up (Increase) or Down (Decrease) buttons when the machine is running in AUTO mode. This will assist when checking/servicing the machine on site.

The display shows OVER when in override mode and the dosing pump (models RC-6CT, RC-6PT) or the salt chlorinator (model RC-6ST) and the pool pump will turn on as needed irrespective of the Timer settings. The Timer/Clock Control light will flash to denote that the Timer has been overridden.



**NOTE: The factory set T1 ON/Off times are 6:00/10:00, T2 ON/OFF times 18:00/22:00 all days of the week. These can be altered following the above instructions to suit your convenience.**

(The Machine has a capability of a third set of ON/OFF timings, which are not set when you receive this machine. If a third set is required, please contact Hurlcon.)



## CLOCK/TIMER SET UP

1. Press the  button ONCE
2. You will see the current day. Press   to adjust if necessary.
3. **ALL** appears on screen (For ALL days of the week)
4. **MUST** press  to save
5. You will see the current time. Press   to adjust
6. Press  to save
7. You will see the T.ON (on time). Press   to adjust
8. Press  to save
9. You will see the T.OFF (off time). Press   to adjust
10. Press  to save
11. You will see the T2.ON (on time). Press   to adjust
12. Press  to save
13. You will see the T2.OFF (off time). Press   to adjust
14. Press  to save

## OVERRIDE TIMER

1. When the machine is in AUTO mode
2. Press  or 
3. The display will show OVER

## TO RETURN TO TIMER MODE

1. Press  or 
2. The display will briefly show OVER then the Timer is back in operation

## DETAILED - CLOCK/TIMER SET-UP (RC 7T ONLY)

This allows the operator to set up the clock and the 'on' and 'off' times for the pool pump and dose. The Clock used in the RC 7T is a **24 hour** clock and **ALL** settings must be set in 24 hour times. Time setting may be set for ALL days or for Monday to Friday and then again for Saturday to Sunday as weekend leisure time may vary according to the use of the Swimming Pool or Spa.

Every effort has been made to display proper words and letters however, the displays are Liquid Crystal and may show hieroglyphics and therefore not display as exact words explained in this manual.

### CHECK/SET UP CURRENT DAY/TIME

Press MODE button and CAL will appear in the pH screen. Using the Up ▲ or DOWN ▼ arrows, press until CLOC appears in the pH screen and TINE appears in the ORP screen. Press enter ↵ If in-correct; change the 24 hour time using the Up/down ▲ ▼ arrows. Press ENTER, to SAVE. Then CLEAR to escape.

#### DAY

Press the enter button ↵ to set the correct day of the week. Move the up or down arrows ▲ ▼ until the correct day of the week appears then press enter ↵ and save will display once saved.

#### PDAY

Press the enter button ↵ to set the program days you wish the machine to operate on. Default setting is to ALL (meaning the time settings apply to ALL days of the week) however, using the arrows to select up or down this can be changed to Monday to Friday (Mon – Fri) and then again Saturday to Sunday (Sat-Sun) if separate time settings are required on the weekend to week days. If selecting Monday to Friday, after setting the times for this period you must save by pressing the enter button ↵ and you **MUST** then arrow back and set times for Saturday and Sunday then save again by pressing the enter button ↵ or the timer will **NOT** engage in this period.

### SETTING THE TIMER

To set the ON and OFF times for the filter pump, proceed as above to set up current day/time and after you have saved the following will appear.

#### ON TIME

The display will now show T.ON (On time). The time may be set using the up and down buttons to any value from 0:00 to 23:59 and press ENTER to SAVE. Also note that the up or down button may be held down for repeats, and after 10 steps, the number will change faster.

#### OFF TIME

The display will now show T.OFF (Off time). The time may be set using the up and down buttons as desired. Press ENTER to SAVE.

### SECOND SET OF ON AND OFF TIMES T2.ON AND T2.OF

The display will now show T2.ON, the second on time. This allows the filter pump time clock control to turn on and off twice in one day. After the T2.ON value has been set and SAVE, T2.OF will appear and the second off time may be adjusted and set and then SAVE. If the second set of On/OFF timings are not required, set the T2 ON to 00 and T2 Off to 00.

### OVERRIDE TIMER

The Timer can be overridden by pressing any of the 2 keys Up (Increase) ▲ or Down (Decrease) ▼ buttons. This will assist when checking/servicing the machine on site or for servicing the filtration equipment. During this setting the filtration pump and the dosage pumps will operate continuously as necessary.























The display shows OVER or OVER – RIDE when in over-ride mode and the dosing pump (models RC-6CT, RC-6PT, 7T) or the salt chlorinator (model RC-6ST) and the pool pump will turn on as needed irrespective of the Timer settings. The Timer/Clock Control light will flash to denote that the Timer has been overridden (RC 6 only). The machine will continue to operate in this setting until Up ▲ or down ▼ buttons are press or the power is switched of to the unit, whereby it will revert back to the imputed settings.





**NOTE: The factory set T1 ON/Off times is 6:00/10:00, T2 ON/OFF times 18:00/22:00 all days of the week. These can be altered following the above instructions to suit your convenience.**

(The Machine has a capability of a third set of ON/OFF timings, which are not set when you receive this machine. If a third set is required, please contact Hurlcon.)

### QUICK REFERENCE - CLOCK/TIMER SET UP RC 7 T

1. Press the  button ONCE
2. You will see the CAL. Press  or  to move to CLOCK and TIME appears in the pH and ORP screens. You will see the current time. Press  or  to adjust. Once you have set the current times press enter and SAVE will appear indicating the current time is saved.
3. After setting the correct time of the day and saving, DAY will appear. Use the arrows to set the correct day of the week and then enter  and SAVE will appear. **MUST** press  to save
4. **ALL** appears on screen (For ALL days of the week). If you wish to set week days separate from week-end days, arrow up or down to set Monday to Friday and enter  then Saturday to Sunday and enter  if required or leave as ALL. The time periods must be set for each time period if selected.
5. Press  to save
6. You will see the T 1.ON (on time). Press  or  to adjust
7. Press  to save
8. You will see the T 1.OFF (off time). Press  or  to adjust
9. Press  to save
10. You will see the T2.ON (on time). Press  or  to adjust
11. Press  to save
12. You will see the T2.OFF (off time). Press  or  to adjust
13. Press  to save

### OVERRIDE TIMER

1. When the machine is off waiting for next time period.
2. Press  or 
3. The display will show OVER-RIDE

### TO RETURN TO TIMER MODE

1. Press  or 
2. The display will briefly show OVER-RIDE then the Timer is back in operation

## DISABLING PUMPS (RC 7 & 7T Only)

The pumps may be disabled by entering CAL mode. Then press the up or down button until PUMP MODE is displayed. Press ENTER and the current setting will be displayed as:

OFF ORP PH BOTH

This shows which pumps are enabled with the default or typical setting being BOTH. If the Ph pump needs to be disabled, select ORP as the only enabled pump and press enter. The pH pump light will now flash to indicate this pump is now disabled.

## MAINTENANCE

1. Lubricate the squeeze (pump) tube every 6 months (not applicable to RC-6ST) More often in commercial applications. Use only the recommended lubricant RC Tube Lube available from Hurlcon or any other compatible silicone lubricant, other wise damage to the tube is possible.
2. Depending upon usage, the squeeze tube may need replacement after 6 months to 1 year on a domestic installation, and earlier on a commercial installation. Before replacing the tube make sure that any stop valves in the filter system are closed. Otherwise water loss may occur.

(To replace the tubes – black coloured for acid – remove the retaining screws or wing nuts and the plastic face plate and pull the tube free. Disconnect the squeeze tube from the barbs and reconnect the new squeeze tube after lubricating the same, making sure that the new tube is correctly connected to the PVC tubing as per instructions. Reposition the squeeze tube in the unit as before, replace the plastic face plate and retaining screws.) PLEASE DO NOT OVERTIGHTEN THE RETAINING SCREWS OR WING NUTS.

3. The Injection Point (black screw nut) through which the chemical discharges into the pipeline should be checked periodically for any build up of solid matter in the end of the PVC tubing and kept clean (not applicable to RC-6ST) This is caused by stale or poor quality chlorine or improper water chemistry. This may otherwise cause blockage and not allow the chemical to pass through the line, will also alter the pH or ORP levels and may cause the squeeze tube to come off the barbs
4. The probes/sensors, which are sensitive instruments. To maintain their accuracy they should be cleaned periodically by household detergent abrasive like Jiff. Jiff is the preferred option. The ORP probe tip can be contaminated (generally observed by a copper or brownish coating – this should always look shiny silver) which will give a false reading to the Controller causing no dosing/over dosing of chemical. As the pH sensor tip is made of glass, please take care, for even a hair line crack can cause the sensor to read incorrectly causing malfunction.

After cleaning the sensors/probes, wash with water, allow 5-10min. to settle and check calibration or re-calibrate if necessary. **Copper based algacides should be avoided, but if used the cleaning procedure for the ORP sensor can be more frequent, as copper will coat the sensor tip (made of platinum) more rapidly.**

### SWIMMING POOL APPLICATIONS:

**USE OF A SUN SCREEN CHEMICAL (CYANURIC ACID) FOR OUTDOOR POOLS IS RECOMMENDED.**

**CHECK WITH YOUR LOCAL POOL SHOP AND USE THE CORRECT DOSAGE. MAKE SURE YOUR POOL WATER IS WELL BALANCED WITH THE CORRECT Ph, TDS TA AND STABILSER LEVELS AND FREE FROM PHOSPHATES.**

## TROUBLE SHOOTING GUIDE

<b>TROUBLE</b>	<b>POSSIBLE CAUSE/SOLUTION</b>
<b>pH reading incorrect</b>	<ul style="list-style-type: none"> <li>* Clean the sensor.</li> <li>* Check calibration of sensor in the pH cal. sol.</li> <li>* Check water balance &amp; correct if reqd.</li> </ul>
<b>ORP reading incorrect</b>	<ul style="list-style-type: none"> <li>* Clean sensor.</li> <li>* Check calibration of sensor in ORP Cal. sol.</li> <li>* Check water balance, especially pH.</li> </ul>
<b>Dosing pump or salt water chlorinator does not operate as it should</b>	<ul style="list-style-type: none"> <li>* Is Setpoint level altered.</li> <li>* Check if fuse(s) blown. Replace with 5amp slow blow fuse.</li> </ul>
<b>The Roller (H) Block on the inside of the unit does not dispense chemicals (not applicable to RC-6ST)</b>	<ul style="list-style-type: none"> <li>* No chemicals in the tank.</li> <li>* Injection point blocked.</li> <li>* Air leak at the connection where the tube from the drum connects onto the pump tube.</li> <li>* Chemical container airtight.</li> <li>* Roller or H block broken.</li> <li>* Pump head cracked.</li> <li>* Squeeze tube needs replacement.</li> </ul>
<b>Water returns to the chemical drum (Not applicable to RC-6ST)</b>	<ul style="list-style-type: none"> <li>* Check last 3 points above. Replace non-return Valve if fitted. If not please fit.</li> </ul>
<b>Numbers not appearing on display panel, no lights or power</b>	<ul style="list-style-type: none"> <li>* Check Fuse, if ok, turn off for 15 minutes, then restart. If still no response, contact Hurlcon Service.</li> </ul>

**IMPORTANT:** ELECTRICAL SPIKES/SURGES OR SIMILAR SITUATIONS CAN EFFECT THE ELECTRONICS & SENSORS AND CAUSE THE MACHINE TO MALFUNCTION. IT IS NECESSARY TO CHECK THE WATER CHEMISTRY, ESPECIALLY PH AND CHLORINE LEVELS REGULARLY WITH A GOOD QUALITY TEST KIT AND LOOK OUT FOR ANY MALFUNCTIONS.

**IF THE PH AND/OR ORP READING ON THE RC MACHINE ARE OUT OF NORMAL RANGE PLEASE TURN THE MACHINE OFF AND CALL A POOL TECHNICIAN OR HURLCON**

ALWAYS USE GENUINE ROLA CHEM PARTS. RETURN TO HURLCON EVERY FIVE YEARS FOR GREASE AND OIL SERVICE

**Hurlcon reserves to change product specifications without notice.**

**Please check Hurlcon web site at [www.hurlcon.com.au](http://www.hurlcon.com.au) for updates before installing or servicing Rola Chem units.**

## WARRANTY



*Hurlcon undertakes under this Warranty to rectify, free of charges any defects caused solely by faulty workmanship or materials. This Warranty is for a period of 12 months from the date of purchase, as long as the product is subjected to normal use and service.*

*Hurlcon accepts no responsibility under this Warranty for damage, including consequential damage resulting from misuse, incorrect usage and use of other than Hurlcon parts. Hurlcon is also unable to accept responsibility under this Warranty if the Unit is not installed correctly in accordance with the "Installation Instructions" provided or from work carried out by unauthorised persons.*

*The liability under this Warranty does not include any costs, contingent or otherwise or liability for damage sustained by the customers or others, whether or not these costs or damages are due to the malfunction, wrong operation or actions by our Agents or Distributors, but shall be limited solely to the repairs or replacement of the product.*

*All Warranty/Service calls or freight charges within the Australian metropolitan area are free. If the unit is outside the metropolitan area, the purchaser is responsible for the costs and risks in returning the unit to Hurlcon for repairs.*

*Hurlcon reserves to change product specifications without notice.*

*Purchased from:*

*Date of Purchase:*

*Model No:*

*Serial No:*

### **Hurlcon Manufacturing & Sales Pty. Limited**

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