

We would like to thank you for having chosen the ZODIAC TRi salt water chlorinator for your pool maintenance. From now on your pool will only be a source of relaxation and well-being because the TRi salt water chlorinator will free you from the constraints of manual treatment while bringing you clean, limpid and more natural water throughout the season.

We recommend that you read this booklet carefully before installing and using your TRi salt water chlorinator.

## Contents

<b>1</b>	<b>Package contents</b>	<b>24</b>
<b>2</b>	<b>Recommendations</b>	<b>24</b>
<b>3</b>	<b>Installation guide</b>	<b>25</b>
	3.1/ Installing the TRi control box	25
	3.2/ Installing the TRi cell	26
	3.3/ Installing the flow sensor	26
	3.4/ Connecting the TRi control box	27
	3.5/ Description of the TRi control panel	27
	3.6/ Changing language	28
	3.7/ Setting the clock	28
<b>4</b>	<b>TRi Salt water chlorinator settings</b>	<b>29</b>
	4.1/ Commissioning the TRi salt water chlorinator	29
	4.2/ The Timers	29
	4.3/ Setting the timers	29
	4.4/ Clearing the settings	30
	4.5/ External clock (filtering command box)	30
	4.6/ Adjusting chlorine production	31
	4.7/ Low mode	31
	4.8/ Boost mode	32
<b>5</b>	<b>Connecting to an external controller (Home automation)</b>	<b>33</b>
	5.1/ Setting the external controller type	33
	5.2/ Precautions when wiring an external controller	33
	5.3/ Wiring the external controller	34
	5.4/ Polaris EOS/ Jandy Aqualink controllers	35
	5.5/ Pentair Intellitouch controllers	35
	5.6/ Checking wiring	35
	5.7/ Checking connections	35
<b>6</b>	<b>Water balance</b>	<b>35</b>
<b>7</b>	<b>Diagnostics Menu</b>	<b>36</b>
<b>8</b>	<b>Error and warning messages: interpretation</b>	<b>36</b>
	8.1/ 'CHECK SALT'	36
	8.2/ 'NO FLOW'	36
	8.3/ 'CHECK CELL'	37
	8.4/ 'OUTPUT FALT'	37
	8.5/ 'CLEANING'	37
<b>9</b>	<b>Maintenance</b>	<b>38</b>
<b>10</b>	<b>Use safety</b>	<b>39</b>
<b>11</b>	<b>Guarantee</b>	<b>40</b>

# 1

## Package contents

- a. 1 x TRi control box with one male AUS format plug
- b. 1 x TRi cell with screw connectors
- c. 1 x wall mount with attachment kit
- d. 2 x sets of glue-on diameter adapters (2 x 50 mm diameter & 2 x 1 1/2" diameter – UK version)
- e. 1 x flow sensor kit (sensor, adapter & connector)



# 2

## Recommendations

### Important Information:

**YOU MUST READ THIS INFORMATION BEFORE INSTALLING. YOU SHOULD ALWAYS READ THE INSTALLATION GUIDE BEFORE COMMISSIONING THE APPLIANCE. WE ADVISE YOU TO KEEP YOUR INSTALLATION GUIDE.**

### Zodiac Believes In Safety First

At Zodiac, we take safety seriously. Always exercise caution when using electrical appliances and follow the instructions. Failure to do so could result in permanent injury, electrocution or drowning.

### General Warnings

Zodiac saltwater chlorine generators are designed for domestic swimming pool use only. Contrary use could affect performance and void warranty.

Operating a chlorine generator without water flowing through the cell may cause an accumulation of flammable gases, resulting in fire or explosion.

Keep equipment out of the reach of children.

A damaged supply cord should only be replaced by the manufacturer, authorized service agent or an electrician.

When installing and using this electrical equipment, always follow basic safety precautions.

Before performing installation, disconnect all power.  
Connect to a circuit that is protected by a ground fault circuit interrupter (GFCI).  
Service to Zodiac equipment should only be carried out by qualified and authorized pool professionals.

## Child Safety

**Children should not be allowed to operate or perform maintenance on this product.**

No one, particularly children, should sit, step, lean, or climb on any of your pool's operational systems.  
In the interests of child safety, all components of a pool's operational system should be located at least 3,5 metres away from the pool.

## Electrical Hazard

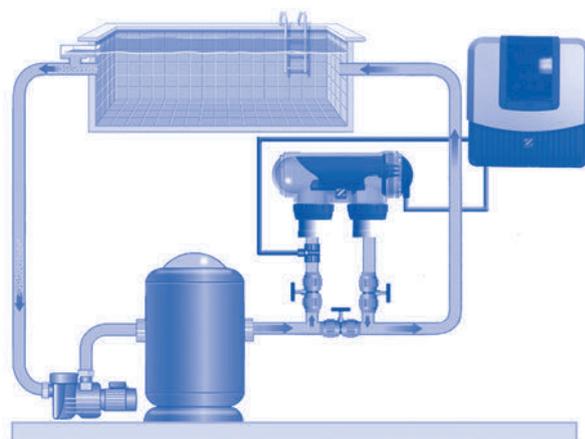
The Zodiac TRi Power pack must not come into contact with water and should be installed at least 3,5 metres from the inside wall of your swimming pool.

Should a lack of water be detected, the unit's electronic flow switch is designed to turn off the system.  
Interfering with the electronic flow switch could result in personal injury and/or damage to the cell.

# 3

## Installation guide

The following steps will help you get up and running with your Tri salt water chlorinator.



### WARNING

Your appliance must be installed by an experienced pool professional.

### 3.1 Installing the TRi control box

1. Find a suitable location for the control box mount. It should be installed no further than 1.8 metres from the cell (this is the maximum cell cable length), the ideal location would be in a filtering box that is dry and ventilated.

**WARNING:** If the control box is fixed to a post it must have a waterproof panel fitted behind the control box which is at least 350 mm wide and 400 mm high.

2. Using the screws provided fasten the mount solidly to the wall and place the control box on it. Connect the appliance but do not switch on the mains power.

### 3.2 Installing the TRi cell

**WARNING:** The cell should always be the last device placed on the pool return pipe (see above diagram).

1. Make sure the cell is placed **HORIZONTALLY**. Ideally the water flow should go from the electric connection side towards the opposite side.

**IMPORTANT INFORMATION:**

- It is always advised to install the cell on a **by-pass**. This assembly is **MANDATORY** when the flow is greater than 20 m<sup>3</sup>/h in order to prevent charge loss.
- If you install the cell on a **by-pass** it is recommended to fit a check valve downstream from the cell and not a manually operated valve; this will avoid all risk of errors.

2. Use the supplied screw connectors to fit the cell to the pipes. If your pipes are 50 mm diameter (DN50) you should use the corresponding glue-on PVC adapters (grey model; the white model is for UK 1 1/2" pipes). For 63 mm diameter pipes (DN63) connect them directly to the screw connectors.

3. When connecting the wiring between the control box and the cell, connect the wires using the colour codes and then fit the cap.

(Note: The two red wires can be connected to either of the electrode's red terminals.)

### 3.3 Installing the flow sensor

The flow sensor and its connector (DN50 mm) **MUST** be installed on the piping close to and upstream from the TRi cell.

- **TRi cell on a by-pass:** The flow detector **MUST** be installed on the cell by-pass between the upstream cut off valve and the cell itself.

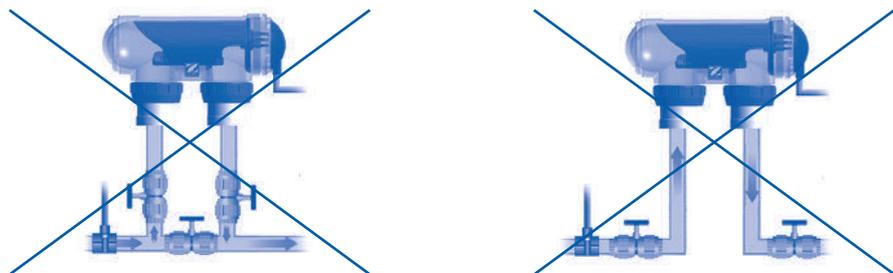
- **TRi installed in line:** The sensor **MUST** be installed just before the cell and after any eventual valves.

**WARNING:** Failure to respect these indications may lead to the destruction of the cell (see diagrams)!

**Good:**



**Bad:**



**IMPORTANT:** The flow sensor must be installed in the right direction (there is an arrow on it showing the flow direction). Make sure it is correctly placed on its connector so that it can stop the Tri salt water chlorinator from producing when filtering is not active (when the red "Flow" indicator is lit there is no flow).

### 3.4 Connection to the TRi command box

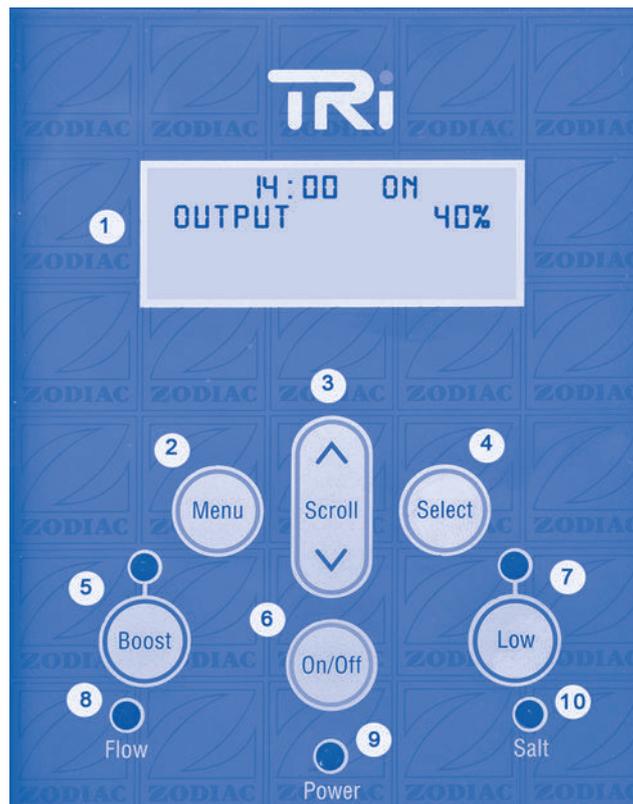
The Zodiac TRi salt water chlorinator is designed to operate exclusively using a 220-240 V ac 50 Hz power supply.

**REMINDER: Your appliance MUST be installed by an experienced pool professional.**

1. Standard connections: The TRi salt water chlorinator can be connected in one of two ways:
  - Either directly connected to the pool filtering system (the appliance is only powered when filtering is active).
  - Or connected to a permanent power supply due to the presence of the flow sensor (power supply protected by a 30 mA ground fault circuit interrupter).
2. Optional connection: If a pump is directly connected to the TRi box (220-240 V ac single phased pump, maximum consumption 9 A) connect your pool pump to the socket located under the TRi using the supplied male AUS format plug (this will allow the TRi timer to control filtering times as well).
3. Once all the connections have been made and all glued assemblies are dry (wait for a few hours depending on the product used) reconnect the mains supply and switch the appliance to the "On" position.

### 3.5 Description of the TRi control panel

The diagram below shows the functions on your TRi control panel:



- 1 - LCD Screen
- 2 - "Menu" button to access the menu
- 3 - "Scroll" (Up / Down) button for chlorine production and menu navigation
- 4 - "Select" button to validate a choice
- 5 - "Boost" button (corresponding blue indicator)
- 6 - "On/Off" button
- 7 - "Low" button (corresponding blue indicator)
- 8 - Red "Flow" indicator; no flow safety
- 9 - Blue "Power" production indicator
- 10 - Orange "Salt" salt level indicator

### 3.6 Changing the language

Out of the factory your TRi salt water chlorinator is delivered with a French language setting. It is possible to change this setting easily using the appliance's main menu.

To change the language:

Turn the TRi on and wait for the starting sequence to end.

Press the  button to access the 'MAIN MENU' (or 'MENU PRINCIPAL' in French).

Use the   buttons to navigate to the 'LANGUAGES' line (or 'LANGUES' in French).

Press  to validate.

Use the   buttons to select the language.

Validate your choice by pressing the  button.

Press  to return to the operational display.

### 3.7 Setting the clock

#### Use of the clock and the timer

In terms of necessary free chlorine each pool is unique. To obtain the required level you can use the appliance's clock and timer.

#### IMPORTANT REMARK:

Your Zodiac TRi chlorinator has an internal memory. When the TRi it is first connected to the power supply it is important that it remains connected for at least 24 hours consecutively (filtering on or direct connection). This will ensure that the internal battery is sufficiently charged to memorise all the operating settings. Once the battery is charged it has an autonomy of several weeks. This operation should be carried out the first time the appliance is used and then whenever the power supply is cut off for a long period.

Turn TRi on.

Wait for the end of the starting sequence on the screen.

Press the  button to access the 'MAIN MENU'.

Use the   buttons to go to the 'CLOCK' line.

Press  to validate.

Use the   buttons to set the hour.

Press  to save the hour.

Use the   to set the minutes.

Press  to save the minutes.

The TRi will then display the 'MAIN MENU'.

Press  to return to the operational display.

**NOTE: The time is displayed in 24 hour format**

# 4

## TRi salt water chlorinator settings

### 4.1 Starting up the TRi salt water chlorinator

The TRi chlorine production can be controlled in several ways:

- 1) Manual setting to a production level with programming using an external timer (filtering control box).
- 2) Using the appliance's own timers (see the 'Timers' chapter) in order to operate independently from the filtering.
- 3) Using a connection to another vendor's external controller (See the 'Connection to an external controller' chapter).

To manually start chlorine production use the  button. The production level can be set by following the instructions in the 'Adjusting chlorine production' chapter.

NOTE: For safety reasons the TRi salt water chlorinator will produce chlorine for a maximum of 30 hours if no STOP time is set for production unless the appliance is connected to an external controller. After this time interval the TRi will automatically switch to the "OFF" position.

### 4.2 The Timers

The Zodiac TRi chlorinator has two serial timers that control chlorine production times (and filtering times if the filtering pump is also connected) by starting and stopping it depending on the need.

NOTE: The use of these timers is strongly recommended for indoor and/or covered pools. For this type of pool the need for chlorine is reduced (less UV from the sun to degrade the chlorine) and therefore the chlorine production intervals are necessarily shorter.

During the bathing season remember to run the system at least 8 hours per day.

NOTE: The ideal daily operating time for filtering is obtained by dividing your pool water temperature (in °C) by 2. Example: Water at 28 °C = Daily filtering time of 14 hours.

In winter it will be possible to reduce the system operating time to about 4 hours per day. These periods of shorter activity will increase the life span of the electrodes.

### 4.3 Setting the Timers

To activate the timer a START and STOP time must be set. If no STOP time is set the chlorinator will stop at 00:00 hours (midnight).

The fact that a valid setting has been entered will be indicated by a "T" symbol displayed in the upper right hand corner of the LCD screen on the default operational display.

#### To set the Timer(s):

Press the  button.

Use the   keys to navigate to 'PROGRAMMING'.

Press the  button to go to the 'TIMER SETTING' menu.

Use the   keys to select the timer to set ('TIMER 1' or 'TIMER

Press  .

Use the   keys to set the hour ('ON' time).

Press  to save the hour.

Use the   keys to set the minutes ('ON' time).

Press  to save the minutes.

Use the   keys to set the hour ('OFF' time).

Press  select to save the hour.

Use the   keys to set the minutes ('OFF' time).

Press  to save the minutes.

The TRi will return to the 'TIMER SETTING' menu.

Pressing  will return to the operational display.

#### 4.4 Clearing the settings

To clear the settings:

Press  .

Use the   keys to navigate to 'PROGRAMMING'.

Press  to access the 'TIMER SETTING' menu'.

Use the   keys to navigate to 'INIT TIMERS'.

Press  .

A confirmation message will be displayed on the screen.

#### 4.5 External clock (filtering command box)

If the TRi chlorinator is operating and the filtering command box does not cut the power supply after 24 hours of continuous operation, the TRi will automatically stop chlorine production to prevent overdosing the chlorine.

**IMPORTANT NOTE:** For pools having an uninterrupted filtering system (24 h / 24) it is essential to set a shutdown once per day on the filtering command box in order to avoid the TRi from switching on the production safety. If this happens chlorine production can be reinitiated manually (  button).

To control the TRi chlorinator using the filtering command box clock:

1. Clear any eventual settings using the procedure described in the 'Clearing the settings' paragraph.
2. Press  to turn on the chlorinator.

## 4.6 Adjusting chlorine production

The amount of chlorine needed for your pool depends on several parameters such as the pool volume, the number of bathers, the climate...

Chlorine production is displayed as a percentage on the screen (by 10% intervals). The water should be analysed regularly in order to ensure an optimum level.

### To adjust the chlorine production level:

Turn the TRi chlorinator on.

Use the   keys to set the required production level.

**WARNING:** If you are using a pool covering system you should considerably reduce chlorine production. Please use the LOW mode if this is the case. Press the  key (see 'Low Mode' paragraph below).



## 4.7 Low mode



**REMARK:** This function is essential if you have an indoor pool or if your pool has a shelter, a roll-on cover or any other type of cover.

If your pool has a cover (shelter, roll-on, tarp...) you should use the 'Low' mode. This is also called the 'Winter' mode. This mode limits chlorine production to 10%.

Reducing production to 10% avoids having a too high concentration of chlorine which can lead to the risk of equipment corrosion.

### 1/ Manual activation

1. To select the "Low" mode press  This operation will reduce chlorine production to 10%.

2. 'LOW MODE' will appear on the screen.

3. To stop "Low" mode press  again.

**NOTE:** "Low" mode cannot be selected if the TRi is controlled by an external controller.

### 2/ Automatic activation

If your pool is equipped with an electric roll-on cover the Zodiac TRi can be connected to it. In this way the Tri chlorinator will automatically switch to "Low" mode when the roll-on cover is on.

**IMPORTANT NOTE:** The automatic activation of Low mode can only be used if the roll-on cover is connected to the TRi box and has a voltage of between 12 and 24 V dc (direct current) when it is closed.

## Standard connection diagram:



Wire 0 V dc (exposed parts) to the 'BLK' terminal  
Wire + 12-24 V dc to the left 'R/W' terminal (beside the BLK terminal)

**NOTE:** The "Low" mode cannot be manually deactivated once it has been automatically started by the closure of the cover. To return to normal chlorine production the cover must be open.

**Remark:** See the 'Wiring the external controller' paragraph for instructions on how to open the TRi command box.

## 4.8 Boost mode

At certain times your pool will need a higher dose than usual. The "Boost" mode is used to rapidly increase the chlorine level.

**To activate the Boost mode:**

Press the  key.

'BOOST' will be displayed on the screen and 100% chlorine production will start.

When Boost mode is active the nominal production settings are temporarily bypassed and the TRi chlorinator will operate for a cumulated 24 hours at 100% chlorine production.



With a standard electric connection (direct connection) the TRi chlorinator will operate at 100% for a cumulated period of 24 hours before automatically reverting to the initial chlorine production level.

When using the Timers, "Boost" mode overrides the Timer settings and produces 100% chlorine continuously for 24 hours. It then reverts to its initially programmed settings automatically.

### REMARK:

**"Boost" mode cannot be stopped in the following cases:**

1/ If the TRi is stopped. The chlorinator must be turned on in order to switch off the "Boost" mode.

2/ If the TRi is controlled by an external controller.

However in most cases the "Boost" function can be set from the external controller menu. Refer to the external controller manufacturer's guide for more details.

## 5

## Connecting to an external controller (Home automation)

If you use a centralised control system (or an external controller) to control your pool your TRi chlorinator must be set to allow communications between the two appliances.

Example of a controller:



### 5.1 Setting the type of external controller

**IMPORTANT NOTE:** The controller type must imperatively be set before connecting the control cables to the external controller box.

Turn the TRi on.

Wait for the end of the starting sequence.

Press the  button.

Use the   keys to navigate to 'EXT CONTROLLER'.

Press the  key to access the controller menu.

Use the   keys to select your external controller version.

Press  to save your choice.

The TRi will display the main menu.

Press the  key to return to the operational display.

**NOTE:** Your TRi chlorinator can only be connected to the controller models that are listed in the 'EXT CONTROLLER' menu. Do not connect the Tri to any other model of external controller.

**Warning: users of Jandy 'REV L' or more recent versions**

It is essential that the external controller setting be set to JANDY L/M if a Jandy Aqualink 'Rev L' controller or a more recent version is to be connected. If the wrong setting is selected the Jandy Aqualink control unit may be damaged.

### 5.2 Precautions when wiring an external controller

**IMPORTANT:** The wiring of the controller should be carried out by an experienced pool specialist.

Before connecting or disconnecting any wires make sure the power supply to both the external controller and the TRi unit has been cut off.

When the TRi chlorinator is connected to a controller it is in slave mode and responds to requests. In this case the Timer settings are ignored and the chlorine production level cannot be changed. All the other 'MENU' functions are still available except for 'BOOST' and 'LOW' modes.

### 5.3 Wiring to an external controller

**IMPORTANT:** The following instructions should be read in conjunction with the external controller installation guide.

Remove the silver 'dress' cover by pressing on the sides and lifting as illustrated below:

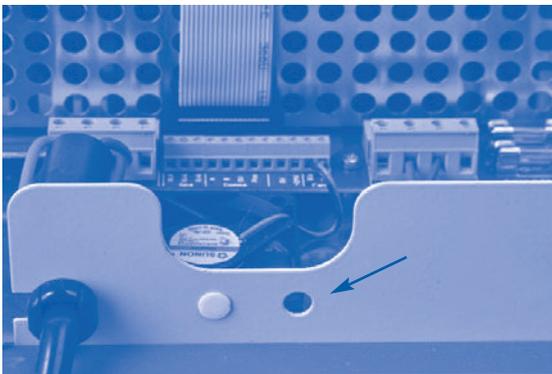


Remove the two screws that fix the lower module to the main unit (see below):

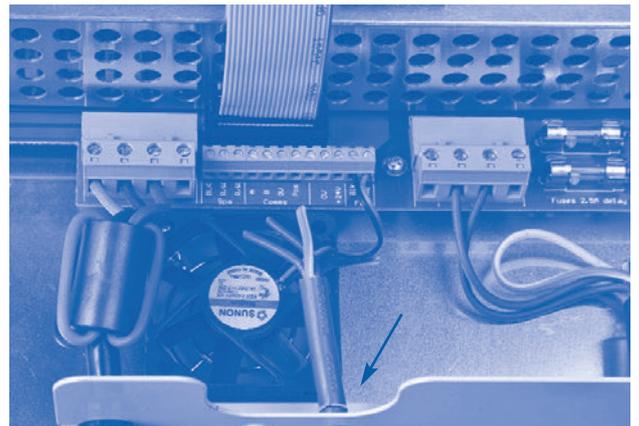


Gently remove the lower module from the TRi unit.

**NOTE:** If you are using the "TRi pH" module carefully disconnect the ribbon cable from the TRi unit (see the "TRi pH" manual).



Remove the small white bung nearest to the centre of the TRi lower panel:



Pass the controller wire through the hole (a grommet may be needed depending on the size of the wire being used).

Attach a cable tie to the controller cable as below in order to prevent it from being pulled out.

➡ Depending on the make of the external controller carry out the following connections for the cable:

## 5.4 Polaris EOS/ Jandy Aqualink controllers:

Green wire (0V) on the '0V' TRi terminal  
Red wire (+V) on the 'POS' TRi terminal  
Yellow/white wire (B) on the 'B' TRi terminal  
Black wire (A) on the 'A' TRi terminal

## 5.5 Pentair Intellitouch controllers:

Green wire to the 'B' TRi terminal  
Red wire to the 'POS' TRi terminal  
Yellow wire to the 'A' TRi terminal  
Black wire to the '0V' TRi terminal

## 5.6 Checking wiring

Once the connection between the external controller and the TRi chlorinator has been made it must be tested.

1. Turn on the external controller and the Zodiac TRi.
2. If the connection is correct the 'T' symbol will appear at the top right hand corner of the screen after about 20 seconds.
3. If the connection is not made then turn the two appliances off and try again.

## 5.7 Checking connections

To check the connection:

1. Turn on the TRi and check the controller settings (follow the instructions in the 'Setting the external controller type' paragraph).
2. Check the connection again.

**NOTE:** For safety reasons the Zodiac TRi will automatically switch off if the connection is lost.

# 6

## Water balance

	pH	Free chlorine mg/L ou ppm	TAC (total alkalinity) °f (ppm)	TH (total hardness) °f (ppm)	Cyanuric acid (stabiliser) mg/L ou ppm	Salt level g/L ou kg/m3
Accepted standard	7.0 – 7.6	1 – 3	8 – 20 (80 – 200)	10 – 30 (100 – 300)	25 – 75	3 – 7
<b>Recommended values</b>	<b>7.2 – 7.4</b>	<b>1 – 2</b>	<b>8 – 15 (80 – 150)</b>	<b>10 – 30 (100 – 300)</b>	<b>&lt; 50</b>	<b>4</b>
To increase	Add pH plus	Increase production or add chlorine	Add alkalinity corrector ("TAC+")	Add calcium chloride	Add cyanuric acid	Add salt
To reduce	Add pH minus	Reduce production or turn off the appliance	Add hydrochloric acid	Add a calcium sequesterer or carry out decarbonation	Partially empty the pool and refill	Partially empty the pool and refill
Frequency of test (bathing season)	Weekly	Weekly	Monthly	Monthly	Quarterly	Quarterly

# 7

## Diagnostics menu

The Zodiac TRi chlorinator automatically warns you in the event of a problem or a fault by displaying a message on the screen. To aid in the understanding of these error messages the appliance has an internal diagnostic aid menu. This automatically scrolling menu helps you by giving suggestions to solve the problem.

### To access the Diagnostics menu:

Press the  key.

Use the   keys to navigate to 'DIAGNOSTIC'.

Press  to display the error message menu.

When in the 'ERROR MESSAGE' menu use the   keys to select the message that was displayed.

Press  .

A certain number of solutions will be suggested and displayed temporarily in order of priority (automatic scrolling).

After the display the TRi automatically returns to the 'DIAGNOSTIC' menu.

To return to the operational display press  . Otherwise the operational display will be shown automatically after about 30 seconds.

# 8

## Error and warning messages: interpretation

### 8.1 'CHECK SALT'

#### ➔ Interpretation:

The salt concentration in the pool is insufficient and/or the water temperature is too low (the orange "Salt" indicator is lit).

#### ➔ Possible causes:

Lack of salt (< 4 g/L) due to water loss or dilution (filter backwash, change of water, rain, leakage...).

The pool water temperature is too low (< 18 °C, variable).

#### ➔ Solutions:

- Add salt to the pool water to maintain the level at 4 g/L. If you don't know the salt level or how to test it contact your reseller.
- A simple case of production limitation when the water is too cold. Reduce chlorine production or add salt to compensate.

### 8.2 'NO FLOW'

#### ➔ Interpretation:

The flow of water in the cell is insufficient or has stopped and the flow detector has stopped chlorine production (the red "Flow" indicator is lit).

#### ➔ Possible causes:

The filtering pump is faulty, the filter and/or skimmers need to be cleaned, the by-pass valve is closed, a wire is disconnected...

➡ **Solutions :**

- Check the pump, the filter and the skimmer(s). Clean them if necessary.
- Check the correct operation of the flow sensor.
- Check the wiring connections (cell and flow sensor).

### 8.3 'CHECK CELL'

➡ **Interpretation:**

The electrode is dirty, scaled and/or used.

➡ **Possible causes:**

Faulty filtering (pre-filter or diaphragm), water too hard (TH), electrode too old.

➡ **Solutions :**

- Clean and/or check the filtering system (pump & filter).
- Check the TH level and add calcium sequestering products if needed. Change the polarity inversion cycle intervals if the TH > 40 °f (400 ppm) (see the important note in the 'Inspecting and cleaning the electrode' paragraph).
- Replace the electrode by an equivalent new one.

### 8.4 'OUTPUT FALT'

➡ **Interpretation:**

There is a problem with the internal power supply to the TRi command box.

➡ **Possible causes:**

- Cell power supply cable disconnected or badly connected.
- Internal power problem in the command box following an external electrical incident.

➡ **Solutions :**

- Turn the TRi chlorinator off (  ) and cut off the power supply to the command box; then check that all the wires are correctly connected (mains, cell...)
- Contact your reseller.

### 8.5 'CLEANING'

➡ **Interpretation:**

The TRi chlorinator is inverting the cell polarity. This is an automatic self-cleaning cycle; the message is not an error but is only for information.

➡ **Solution :**

Wait for about 10 minutes and chlorine production will resume automatically at the set levels.

## Maintenance

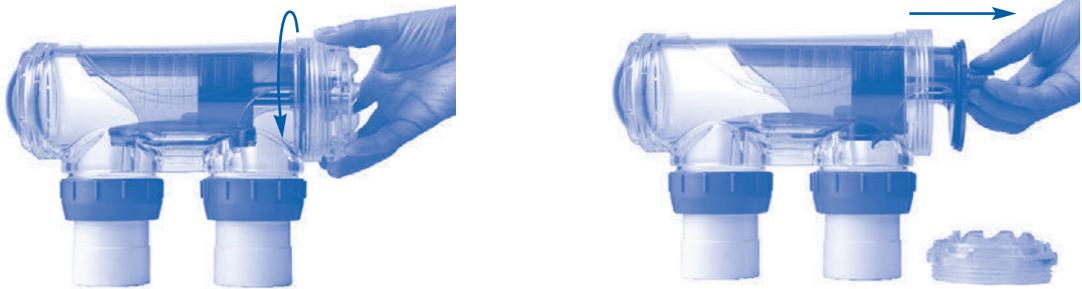
To keep your TRi appliance in the best condition we recommend that you maintain it regularly.

### Inspecting and cleaning the electrode

In zones where the water is hard (high TH) the Tri electrode may have to be cleaned.

To clean the TRi electrode:

1. Turn off the TRi chlorinator and the filtering, close the isolation valves and remove the cell cap.
2. Unscrew the retaining ring and remove the electrode from the cell body. The ring is crimped allowing the use of a lever in case it gets stuck. If scale is present place the electrode in cleaning solution **without immersing the connection terminals**.



3. If you are not using a commercial cleaning solution you can make your own by carefully mixing one (1) part of hydrochloric acid with nine (9) parts of water (Warning: always pour the acid into the water, never the opposite!). A stronger solution would reduce the electrode's life span.
4. Let the cleaning solution dissolve the scale deposit for about fifteen minutes. Dispose of the solution in an approved local waste collection centre; never pour it into the rain water evacuation system or into the sewers.
6. Rinse the electrode in clean water and replace it in the cell body (there is an alignment failsafe).



7. Replace the retaining ring, reconnect the cell cable and replace the cap. Switch filtering and the Tri chlorinator on.
8. Confirm chlorine production and operating settings on the command box. The clock settings are saved automatically.

**IMPORTANT NOTE:** If the water is too hard (TH > 40 °f (400 ppm)), it is possible to alter the length of the polarity inversion cycles on your TRi chlorinator in order to obtain a better self-cleaning effect on the electrode. If this is the case contact your reseller (professional access).

# 10

## Use safety

- ➡ The Zodiac TRi must be installed by a pool professional. Its installation and use must comply with the recommendations contained in this manual.
- ➡ During any interventions on the pool's hydraulic circuit and/or filtering system, remember to switch off the TRi chlorinator first (  button) and then switch off filtering and the mains power supply.
- ➡ During a filter backwash your TRi chlorinator **MUST be turned off** (  button).
- ➡ Do not scrape the electrodes with a brush or a metal object, do not distort them.
- ➡ The maximum acceptable water temperature for water passing through the TRi cell should not be in excess of 40 °C for optimal production.
- ➡ Water pressure in the TRi cell must not exceed 2.75 bar (275 kPa or 40 PSI).
- ➡ Regularly check the TRi cell to make sure there is no debris that the filter may not have stopped and/or that there is no scale deposit on the electrodes.
- ➡ The TRi command box should not be installed above a source of heat of any type (pump, heating, radiator, closed block...). It must also be mounted on a vertical wall in a dry ventilated place.
- ➡ The life span of the TRi electronic equipment will be greatly increased if it is protected from direct sunlight and humidity.

# 11

## Guarantee

### a > Conditions

We have taken great care and used our technical experience to manufacture this equipment which is the subject of numerous permanent quality controls.

We regularly bring improvements or modifications to our models which take into account technological progress. These improvements cannot be added to previous models as part of the application of our guarantee.

If, despite all the care and know-how that has been brought to the manufacture of our products, you need to use our guarantee, the guarantee will be limited to the replacement free of charge of the faulty parts. Shipping and labour costs remain at your expense.

This appliance has been especially designed for the European, North African and Near and Middle Eastern markets and may not be sold outside of these zones. The appliance is not guaranteed outside of Europe, North Africa and the Near and Middle Eastern countries.

### b > Duration of the guarantee

The Zodiac TRi chlorinator command box and cell are unconditionally guaranteed: whatever the cause of deterioration they will be repaired or replaced during the 36 months (3 years) following your purchase (based on the invoice date).

### c > Object of the guarantee

During the above defined warranty period all parts acknowledged by Zodiac as being defective will be repaired or replaced by a new part or an operational part.

In all cases the travel expenses and labour costs are at the user's expense.

In the event of a return to the workshop the two way transport costs are at the user's expense, the labour costs are at the manufacturer's expense.

The immobilisation or deprivation of use of an appliance may under no circumstances give rise to compensation.

Our liability will not be engaged in the event of a faulty installation or the non respect of safety rules.

In all cases the seller's legal guarantee continues to apply in compliance with article 4 of the 24th March 1978 decree n° 78-464. The article 1641 Code Civil legal guarantee applies.

### d > Damage during transport

Appliances are always shipped at the user's risk. Before accepting delivery of the appliance the user must check that it is in perfect condition and eventually make a reserve on the transporter's bill of delivery.

Our liability cannot be engaged on this point.

### e > Governing law and litigation

This guarantee is subject to French law and all European directives and international treaties applicable in France at the time of the claim. In the event of disagreement as to its interpretation or application exclusive jurisdiction is given to the French courts of justice.