



Disposing of the product – Protection of the environment:

In compliance with the requirements of directive DEEE - 2002/96/EC (Waste Electrical and Electronic Equipment), used electrical and electronic equipment must be processed separately from normal household waste in order to promote re-use, recycling and other such forms of reclaiming, and also to limit the quantity of waste to be disposed of, thereby reducing the recourse to dumps.

When disposing of this product, please respect the local regulations in force concerning the disposal of waste. Do not dump it in the nature, bring it to a centre specialised in the collection of electrical and electronic waste, and/or enquire with your retailer when purchasing a new product.

Thank you for choosing the Tri pH module pH regulator for your swimming pool. From now on your pool will become only a source of relaxation and wellbeing, as the Tri pH module pH regulator frees you of tedious manual tasks, whilst providing healthy, clear and more natural water throughout the season.

We recommend that you read this User Manual carefully before installing and using your pH regulator.

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1

Contents of the package

1. Zodiac TRi pH Module
2. pH tester with 5 m shielded cable
3. 50 mm diameter holding clamps (for pH tester & anti-backflow release valve)
4. 5 m coil of hose (for pH minus suction & release)
5. anti-backflow release valve
6. PVC reducer for release valve
7. pH 7.5 Buffer solution
8. Ceramic counterweight
9. Stop washer for the suction pipe ceramic weight
10. Teflon tape
11. Tester-holder



2

Recommendations

Important information

YOU MUST READ THE FOLLOWING INFORMATION BEFORE PROCEEDING WITH THE INSTALLATION. ALWAYS READ THE USER MANUAL BEFORE USING THE DEVICE. WE RECOMMEND THAT YOU KEEP THE USER MANUAL IN A SAFE PLACE.

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.

Avertissements

Zodiac water treatment product are designed for domestic swimming pool use only. Inappropriate use could affect performance and void the warranty.

Operating a saltwater chlorinator associated with pH regulator without any water flowing through the cell may cause a build-up of flammable gases, which could result in fire or explosion.

Keep the equipment out of the reach of children.

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

In the interest of child safety, all components of a pool's operational system should be located at least 3 meters away from the pool.

Electrical Hazard

The Zodiac TRi Power pack on which the TRi pH module is connected must not come into contact with water and should be installed at least 3 meters 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


Quick install guide

The following steps will help you get up and running with your new Zodiac TRi pH module associated with your Zodiac Tri salt electrolyser.

IMPORTANT!

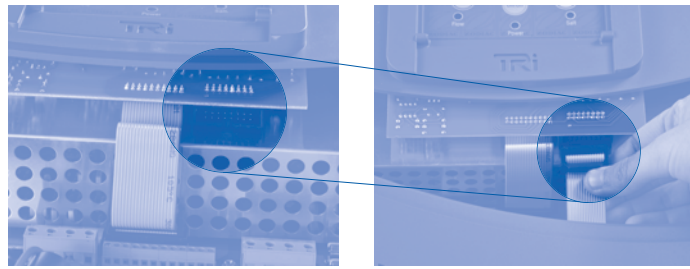
Your appliance must be installed by a qualified and experienced pool professional.

3.1 Installing the TRi pH module

1. Turn off your Zodiac TRi salt chlorinator by pressing the  button.
2. Switch off the filtration system by cutting off the main power to the technical cabinet in the filtration electric board.
3. Close the valves cutting off the pipework.
4. Remove the silver cover cap.
5. Remove the two screws holding the original lower module (empty) on the main unit.



6. Remove the empty original module and replace it with your new TRi pH module. Connect the TRi pH module ribbon cable (flat cable with black male connector) to the corresponding black female connector of the Tri power pack.



7. Position the TRi pH module correctly and tighten the two screws. Put the silver cover cap back into place.

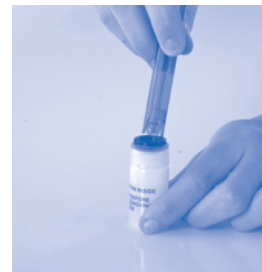
IMPORTANT: Do not connect the power supply before the TRi pH module, the pH tester and its pH minus release pipe are installed (cf. section "TRi pH module Testing & Priming").

3.2 Preparing the pH tester

To ensure optimal operational, follow the instructions hereafter before fitting the pH tester on the pipework of your pools technical shed:

1. Carefully remove the small protection bottle that contains a preservative liquid by unscrewing its cap.

2. Rinse the end of the tester that does not have the preservative bottle on it with clear tap water, then shake off any excess water.



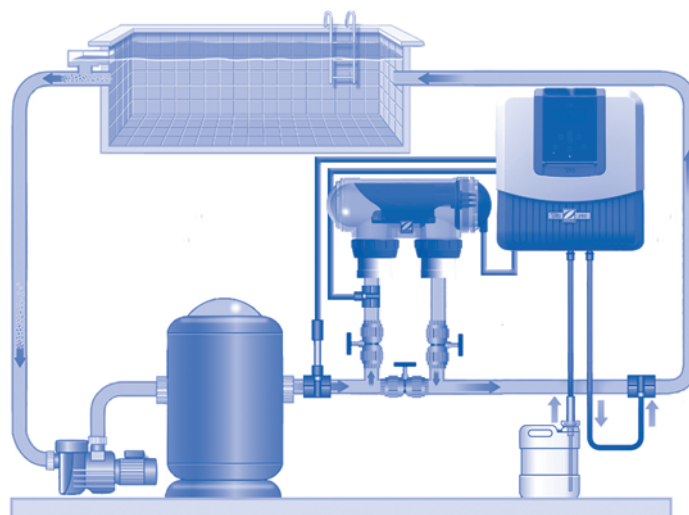
IMPORTANT: Never wipe the tester with a cloth or a piece of paper as this could damage it!

3. Set the bottle containing the preservative liquid aside for long term and wintering storage. Empty the preservative liquid solution, filling it with tap water will be sufficient when storing the pH tester.

3.3 Installing the pH tester

The pH tester must be fitted on the pipework of the technical shed in order to continuously measure the pH of the pool water. According to the levels measured the Zodiac TRi salt chlorinator associated with the TRi pH module will automatically inject pH minus, only when necessary (pH above set point).

Figure illustrating the location of the TRi pH module



IMPORTANT RECOMMENDATIONS:

- A pH tester is designed to measure the pH of raw filtered water (non heated and non treated: positioned upstream of any heating system and of the TRi cell).
- The pH tester must be the first element fitted after the pool filter.
- The pH tester must be installed vertically (with cable facing up). A 45° tolerance to either side of the vertical is acceptable in the case of superposed pipes.
- It is recommended to place the pH tester more than 20 cm from a bend in the pipe.
- The cable of the pH tester must not run next to high voltage power cables.

NOTE: An incorrectly installed pH tester may give erroneous pH measures resulting in inappropriate operation of your TRi equipment. Neither the manufacturer nor the appliance will be held responsible in this case.

Installing the pH tester:

1. Place one of the supplied clamps on the return line, after the filter but before any heating system and before the TRi cell (cf. above figure). As the pH tester has a diameter of 12 mm, the hole drilled in the pipe will need to have a diameter between 16 and 20 mm.



2. Ensure that the clamp is fitted horizontally with its threaded orifice on top. The pH tester must be in a vertical position (tolerance of 45° with respect to the vertical).

3. Wrap some Teflon tape around the tester-holder (photo 3, page 20) and screw it onto the holding clamp.

4. Insert the pH tester in the tester-holder and tighten the tightening collar by hand (moderate tightening!). The pH tester must be placed so as to ensure that the extremity in contact with the water is positioned at the centre of the pipe.



5. Once the pH tester is fitted onto the pipe it can be connected to TRi power pack.

NOTE: Avoid placing the pH tester cable close to other electrical cables so as to prevent interference with the pH measurements.

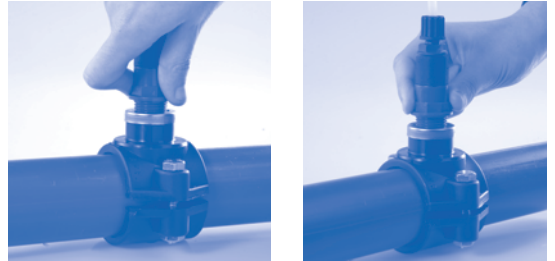
3.4 Installing the pH minus release pipe

Important: Always use appropriate safety clothing when handling chemical products (protection glasses, gloves and lab coat).

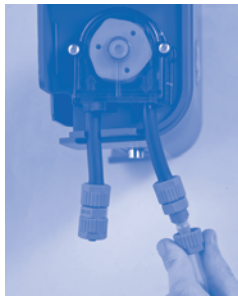
The pH minus release pipe leads from the corrective agent container to the anti-backflow valve on the pool pipework, including the TRi pH module peristaltic pump.

⇒ **Installing the release pipe (pump → anti-backflow valve):**

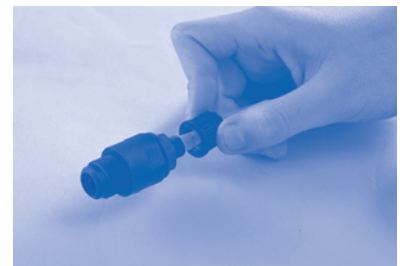
1. Install the second clamp (supplied) on the return pipe, after the TRi electrolysis cell. It must be the last element before the return line to the pool (cf. figure under section 3.3). The hole to be drilled in the pipe will need to have a diameter between 16 and 20 mm.
2. Wrap some Teflon tape around the PVC reducer (photo 8, page 3) and around the anti-backflow valve (photo 7, page 3).
3. Screw the PVC reducer onto the clamp then screw the anti-backflow valve onto the PVC reducer (moderate tightening).



4. Cut an adequate length of hose from the supplied coil (photo 10, page 3) to connect the peristaltic pump of the TRi pH module to the anti-backflow valve previously assembled.
5. Remove the protection cover of the TRi pH module peristaltic pump.



6. Fit the tube onto the threaded output connector on the pump as illustrated in the photo. The output of the peristaltic pump is marked with an arrow pointing downwards on the translucent blue casing.



7. Fit the other end of the pipe to the anti-backflow release valve.

⇒ **Installing the suction pipe (container → pump):**

1. Cut an adequate length of hose from the supplied coil (photo 10, page 20) to connect the pH minus container to the TRi pH module peristaltic pump.
2. Fit the tube onto the threaded input connector on the pump as illustrated in the photo. The suction inlet for the peristaltic pump is marked with an arrow pointing up on the translucent blue casing.
3. Drill a hole of appropriate size to accommodate the suction pipe in cap of the pH minus container and also another smaller hole to prevent the container from distorting ("air inlet").



4. Pull the free extremity of the tube through the hole drilled in the cap, then place the ceramic weight as well as the nozzle (photos 4 & 5, page 20, and photo hereunder).

5. Check that ALL connexions are correct and watertight before operating the TRi pH module.
6. Put the protection cover of the TRi pH module peristaltic pump back into place.

3.5 Automatic detection ("Plug & Play" TRi pH module)

Zodiac TRi power pack will automatically detect the presence of a TRi pH module. It will display 2 additional lines on the LCD screen, mentioning 'PH CONTROL' and the pH set point.

1. 'PH CONTROL' will be displayed on the 3rd line on the LCD screen.
2. The pH set point will be displayed on the 4th line of the LCD screen. In addition, a '^' symbol is displayed when the pH measured by the appliance is higher than the set point.










IMPORTANT NOTE: By default, the pH regulation (peristaltic pump) is not activated and the LCD screen will display as follows 'pH ---'. Activation will take place automatically approximately 8 hours after it is turned on. To manually activate the pH regulation and display the set point on the LCD screen, refer to the chapter 'Activating and deactivating the peristaltic pump'.

3.6 Testing / Priming the peristaltic pump

After installation it is recommended to test the peristaltic pump of the TRi pH module and to prime it (self-priming system).

IMPORTANT! Before testing the peristaltic pump, check that all the pH minus suction and release connections are correct. Always use adapted safety clothing when handling chemical products.

To test the pump:

1. Turn on the TRi power pack .
2. Press the  key.
3. Use the   buttons to display 'PH. SETUP'.
4. Press  to access the 'PH. SETUP' menu.
5. Use the   buttons to display 'TEST ACID'.
6. A warning message will be displayed briefly, then press  to validate starting the pump. The peristaltic pump will run for approximately 30 seconds and will stop automatically. If you need to stop the pump immediately, press on the .
7. Check that the pump has been correctly primed (the pH minus liquid will be visible inside the transparent tubes).

NOTE: For a faster priming of the peristaltic pump, it may be necessary to repeat steps 2 to 7 several times depending on the length of the pH minus distribution tube.

4

Calibrating the pH tester

IMPORTANT: In order to operate accurately and reliably it is essential for the pH tester to be calibrated before operating the TRi Salt chlorinator with the TRi pH module.

To do this, check that the TRi power pack is connected to the mains, turn off the pool pump and isolate the pH tester by closing the valves so as to remove the pH tester safely.

4.1 Calibration procedure

1. Remove the pH tester from the tester-holder (manually unscrew the tightening collar). Rinse the extremity of the pH tester with clear water and shake it so as to remove any excess water. Do not touch or use a cloth to wipe the glass bulb on the extremity of the pH tester.



2. Place the pH tester in a sample of pH 7.5 buffer solution (supplied).

3. Leave the pH tester immersed in the buffer solution for approximately 5 minutes in order to ensure a reliable measurement.



4. From the default display on the LCD screen, press  .



5. Use the   keys to display 'PH SETUP', then press  .



6. Use the   keys to display 'CALIBRATE PH', then press  .

7. Note the measured pH value 'CURRENT PH'. If the value is higher than 8.2 or lower than 6.4 there may be a problem with the pH tester: it is either dirty or may have been damaged during transportation. Clean the pH tester (see section 'Cleaning the pH tester') and repeat steps 1 to 7. If the problem persists, contact your professional retailer for further assistance.

8. If the pH value displayed on the LCD screen 'CURRENT PH' is between 6.4 and 8.2 pH, press **Select** to start the calibration process.



9. Once the calibration is completed, note the new pH value displayed ('CURRENT PH'). If the value is not 7.5 pH, repeat steps 1 to 8.

10. Press **Menu** twice or wait 30 seconds, the TRI power pack will return to the default display on the LCD screen.



IMPORTANT:











- In order to ensure that the Zodiac TRi remains fully efficient, it is recommended to perform a calibration at least once every two months during the season of pool use.
- Ensure that the pH tester is perfectly clean before starting a calibration operation (Refer to the section on 'Cleaning the pH tester'). Then rinse it with clear water, this will ensure that the calibration will be more precise.

4.2 pH set point

The set point is the value to which the Zodiac TRi will adjust the pH in the swimming pool water. This value is displayed by default on the LCD screen.

The default setting for the TRi pH module is 7.2 pH. This value corresponds to the ideal compromise so as to achieve optimal efficiency in terms of water disinfection, but it can be changed to adapt to specific pool conditions and requirements.

To change the pH set point:

1. Ensure that the pH tester has been calibrated (see above procedure).
2. From the default display on the LCD screen, press .
3. Use the   keys to display 'PH SETUP', then press .
4. Use the   keys to display 'PH SET POINT', then press .
5. Use the   keys in order to change the value for the set point.
6. Press  three times or wait 30 seconds for the TRi power pack to return to the default display on the LCD screen.

4.3 Setting the swimming pool size

To ensure that the pH is regulated under the best conditions for your pool, it is necessary to adapt the settings of the peristaltic pump according to the volume of water in your pool so as to release only the required quantity of pH minus. This setting is performed only once when activating the TRi pH module for the first time, it is not necessary to change it thereafter.












It is possible to set 4 levels corresponding to 4 sizes of swimming pool. List of levels and corresponding volumes of pool water:

- Level 1 : For small swimming pools with up to 60 m³ of water
- Level 2 : For medium-sized pools with 60 to 90 m³ of water
- Level 3 : For large-sized pools with 90 to 120 m³ of water
- Level 4 : For very large pools with more than 120 m³ of water

The above values are only indications, the exact values may vary according to the conditions of use. However, it is recommended not to "over-size" the setting so as to avoid using too much pH minus.

NOTE : Pour des raisons de sécurité le niveau par défaut pour le volume de la piscine est de 1 (valeur minimum). Cette valeur contrôle la quantité de pH minus qui est injectée dans la piscine quotidiennement.

To enter the settings corresponding to the pool size proceed as follows:

1. From the default display on the LCD screen, press .
2. Use the   keys to display 'PH SETUP', then press .
3. Use the   keys to display 'SET POOL SIZE', then press .
4. Use the   keys to select the level corresponding to the volume of water in your pool (default value: 1).
5. Press  to confirm your choice then press  twice or wait 30 seconds for the TRi power pack to return to the default display on the LCD screen.

NOTE : One dose of pH minus is released in the pool every two hours (when the TRi filtration and electrolysis systems are operating).

IMPORTANT! It is recommended to select the lowest possible level of pool volume in order to avoid overdosing the pH minus release.









5

Activating and deactivating the peristaltic pump

For safety reasons, the peristaltic pump of the Zodiac TRi with TRi pH module is not activated when delivered.

When the TRi pH module is connected to the TRi power pack, the peristaltic pump is programmed to start operating automatically approximately 8 hours after turning it on. During this period the default display on the LCD screen will display 'pH ---'.

To activate the peristaltic pump:

1. From the default display on the LCD screen, press .
2. Use the   keys to display 'PH SETUP', then press .
3. Use the   keys to display the line 'ACID PAUSED' (or 'ACID ENABLED' if the peristaltic pump has been activated already).
4. Press  to activate the peristaltic pump ('DOSAGE ON').
5. When you have selected the appropriate option press  twice or wait 30 seconds for the TRi power pack to return to the default display on the LCD screen.

NOTE: Use the opposite procedure in order to deactivate the peristaltic pump (default display on the LCD screen will return to 'pH ---').

6

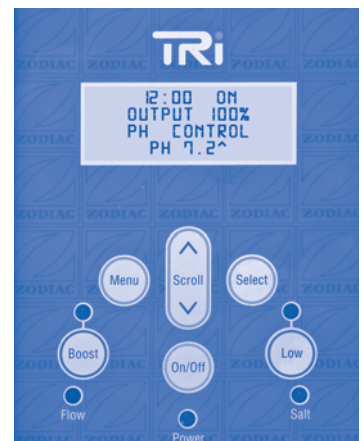
Using the Zodiac TRi with TRi pH module

The Zodiac TRi is now ready to automatically regulate the pH in the pool water using the TRi pH module.

1. Setting the 'ON' and 'OFF' periods (refer to the Zodiac TRi Salt chlorinator User manual).
2. Select the desired level of chlorine release (refer to the Zodiac TRi Salt chlorinator User manual).
3. If the pool water pH exceeds the set point, the symbol "^" will be displayed to the right of the set point value on the LCD screen. pH minus will then be released automatically according to the predefined cycles.
4. Refer to the instructions concerning water balance hereunder in order to ensure optimal operating conditions for the Zodiac TRi.

The Zodiac TRi Salt chlorinator together with the TRi pH module will automatically maintain the appropriate pH level for the pool water.

Note: The TRi pH module is designed to use only pH minus (therefore to lower the pH). Do NOT use other products.



7

Water balance

The Zodiac TRI with the TRi pH module is designed to disinfect the swimming pool water via its salt electrolysis function and to maintain the pH level using its TRi pH module function.

The following information concerning the values to be respected for a correct water balance is essential in order to fully enjoy your pool.

Ensuring that the pool water balance is correct from the start will reduce the probability of encountering problems during the first days of operation or during the season of use of your pool.

	pH	Free chlorine mg/L - ppm	TAC (total alkalinity) °f (ppm)	TH (total hardness) °f (ppm)	Cyanuric acid (stabiliser) mg/L - ppm	Salt level g/L - kg/m ³
Accepted standard	7.0 – 7.6	1 – 3	8 – 20 (80 – 200)	10 – 30 (100 – 300)	25 – 75	3 – 7
Recommended values	7.2 – 7.4	1 – 2	8 – 15 (80 – 150)	10 – 30 (100 – 300)	< 50	4
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

8

Cleaning the pH tester

To ensure that the TRi pH module will operate under optimal conditions, it is recommended to clean the a pH tester before each calibration.

To clean the pH tester:

- If the extremity of the pH tester is covered with a greasy film (cosmetics deposit, sun lotion...), place it for a few minutes in tepid soapy water. Do NOT use detergent products but rather liquid dishwashing product. Then rinse profusely using clear water.

- If the extremity of the pH tester is covered with sediment or if the above procedure was not sufficient, place the pH tester in a solution of chlorhydric acid diluted at 10% for a few minutes (wear all necessary protective clothing). Then rinse profusely using clear water.

Note: It is possible to buy this acid cleaning solution from your local swimming pool retailer or you can prepare it yourself by pouring 1 volume of acid into 9 volumes of clear water, using an appropriate container. ALWAYS ADD THE ACID TO THE WATER, NOT THE WATER TO THE ACID! Then rinse profusely the pH tester with clear water and proceed with the calibration before using it.

IMPORTANT:

- Always clean the pH tester before performing a calibration.
- NEVER WIPE THE PH TESTER WITH A CLOTH shake it slightly in order to remove any excess rinse water.

9

TRi pH module maintenance and wintering

Using the TRi pH regulation module allows for more freedom when monitoring the pool parameters. However, it is necessary to check a number of settings on a regular basis so as to ensure a correct and safe operation of the system.

NOTE: Your TRi pH module is a peristaltic pump that is designed to release only pH minus. Do NOT use chlorhydric acid, pH plus or any other products.

TRi pH module wintering:

When you need to store the TRi pH module at the end of the season, it is recommended to let it pump clear water instead of the pH minus so as to rinse out the peristaltic pipe.

The pipe can be cleaned simply by using the peristaltic pump Testing and Priming function (see the section on 'Testing/Priming the peristaltic pump').

Remove the pH tester from its holder. Store it in its bottle or in a bottle of water filled with tap water. If necessary seal the tester-holder, using a coin (5 Euro centimes for example).

IMPORTANT NOTE: NEVER let the pH tester dry out, this would damage it severely.

10

Error messages and warnings

10.1 'PH LOW'

➡ Meaning:

The pool water pH is 0.4 pH lower than the set point displayed on the LCD screen. You must test the pool pH manually before proceeding.

➡ Possible causes:

The pH tester needs to be cleaned and calibrated.

The pH tester is worn out and/or faulty.

This could also mean that the selected set point is too high or that the selected pool volume is too high.

➡ Solutions:

- Clean then calibrate the pH tester (see the section on 'Cleaning the pH tester' and 'Calibrating the pH tester').
- Replace the pH 7.5 buffer solution, then calibrate the pH tester.
- Check the value selected for the set point.
- Check the setting for the level corresponding to the volume of the pool (see section 'Setting the swimming pool size').
- If necessary replace the pH tester.

10.2 'PH HIGH'

➡ Meaning:

The pool water pH is 0.4 pH higher than the set point displayed on the LCD screen. You must test the pool pH manually before proceeding.

➡ Possible causes:

The pH tester needs to be cleaned and calibrated.

The pH tester is worn out and/or faulty.

This could also mean that the selected set point is too low or that the selected pool volume is too low.

➡ Solutions :

- Clean then calibrate the pH tester (see the section on 'Cleaning the pH tester' and 'Calibrating the pH tester').
- Replace the pH 7.5 buffer solution, then calibrate the pH tester.
- Check the value selected for the set point.
- Check the setting for the level corresponding to the volume of the pool (see section 'Setting the swimming pool size').
- If necessary replace the pH tester

10.3 'PH ERROR'

➔ Meaning:

The peristaltic pump of the TRi pH module has functioned for full dosage cycles without achieving the defined set point (displayed on the LCD screen). The peristaltic pump has switched to "safety" mode.

➔ Possible causes:

The pH minus container is empty.
The pH tester needs to be cleaned or calibrated.
The pH tester is faulty.
The level selected for the pool volume is too low
The peristaltic pump is stopped.

➔ Solutions:

- Replace the pH minus container if it is empty
- Clean, then calibrate the pH tester (see section 'Cleaning the pH tester' and 'Calibrating the pH tester').
- Check the setting for the level corresponding to the volume of the pool (see section 'Setting the swimming pool size').
- Test the peristaltic pump (see section 'Testing/Priming the peristaltic pump').

➔ Press  to clear the error message.

11

Garantie

a > Conditions

We have taken utmost care in manufacturing this product which has benefited from our extensive technical experience and also from continuous quality controls.

We regularly introduce improvements or modifications to our models in order to integrate technological progress. For obvious reasons it is impossible for us to add such improvements to our previous models as part of our warranty.

If, despite the care and know-how we put into manufacturing our products, you have to call upon our warranty, this latter will only apply to the free replacement of the faulty parts. Shipping and labour costs will remain at your charge. This device has been specially designed for the European, North African and Near and Middle Eastern markets, and cannot be sold outside these zones. Moreover, this appliance is not guaranteed outside of Europe, North Africa and countries of the Near and Middle East.

b > Period covered by the warranty

The Zodiac TRi pH regulation module is covered by a warranty of 2 years (24 months) following its initial purchase (date on the invoice as proof), except for those parts that are subject to wear.

c > Object of the warranty

Only the "power pack" of the Zodiac TRi pH regulation module is covered by the warranty (main control unit, electronic board and peristaltic pump motor).

During the period covered by the warranty as defined here-above, any part which Zodiac has recognised as being faulty will be repaired or replaced with a new part or a fully functional part.

In any case, transportation and labour costs will remain at the user's cost.

If the product needs to be returned to us, shipping expenses to and from our workshop will be at the user's expense, labour costs however will be supported by the manufacturer.

Immobilisation and deprivation of use of a device in the case of repair will not entitle the users to any compensation.

Concerning the following parts:

- anti-backflow valve
- peristaltic tube
- pH tester
- buffer solution

These are considered to be subject to normal wear and are therefore not covered by the warranty as defined above.

Only the legal warranty covering against hidden manufacturing flaws will apply to these parts. Our responsibility will not be engaged in the case of a faulty installation or of failure to comply with the safety regulations. In any case, the seller's legal warranty remains in force with reference to article 4 of decree n°78-464 dated 24 March 1978. The legal warranty stipulated under article 1641 of the civil code will apply.

d > Damage during transport

The devices are shipped at the user's risk. It is the user's responsibility to check that the product is in perfect condition before accepting delivery, and if necessary to write down any reservations and comments on the transportation/delivery slip. Our responsibility will not be engaged in this respect.

e > Jurisdiction, litigation and dispute

The present warranty is governed by French law and by any European Directives and international treaties in force at the time of the claim, as enforceable in France. Jurisdiction will be attributed exclusively to French courts in the case of dispute concerning its interpretation or its execution.