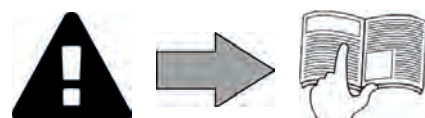# ZODIAC®

Hydroxinator®

Instructions for installation and use
English

EN

More documents on:
www.zodiac-poolcare.com

WARNINGS

- **Failure to respect the warnings may cause serious damage to pool equipment or cause serious injury, even death.**
- **This appliance is intended for a specific pool use and must not be used for any purpose other than that for which it was designed.**
- **It is important that the equipment is operated by competent and qualified (both physically and mentally) people who have previously received instruction in its use. All persons not meeting these criteria must not approach the appliance in order to avoid exposure to dangerous elements.**
- **Keep the appliance out of the reach of children.**
- **The device must be installed by a qualified technician according to the manufacturer's instructions and in compliance with local regulations. The installer is responsible for installation of the equipment and for compliance with national installation regulations. Under no circumstances can the manufacturer be held liable in the event of failure to comply with applicable local standards.**
- **For other than the simple user-maintenance described in this manual, the product must be serviced by a qualidifed professionnal.**
- **Incorrect installation and/or use may cause serious damage to property or serious injuries (possibly resulting in death).**
- **Any equipment, even carriage and packing paid, travels at the consignee's risk. The consignee should enter any reservations in writing on the carrier's delivery note, if there is any evidence of transport damage (and confirm them by recorded delivery letter to the carrier within 48 hours). In the event of a device containing coolant fluid that has been tipped over, issue your reservations to the carrier in writing.**
- **If the appliance suffers a malfunction, do not try to repair it yourself; contact a qualified technician.**
- **If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified persons in order to avoid a hazard.**
- **Refer to the warranty conditions for details of the permitted water balance values for operating the appliance.**
- **Eliminating or shunting one of the safety devices automatically voids the warranty, as does the replacement of parts using parts not manufactured by ourselves.**
- **Do not spray insecticide or any other chemical (inflammable or non-inflammable) in the direction of the appliance, as this may damage the body and cause a fire.**
- **Heat pump, filtration pump and filter appliances are compatible with all types of water treatment.**
- **For heat pump appliances or dehumidifiers, do not touch the fan or insert a rod or your fingers through the grating when the appliance is in operation. The fan rotates at high speed and may cause injuries or even death.**
- **The electrical supply to the appliance must be protected by a dedicated 30 mA differential residual current protection device, complying with the standards and regulations in force in the country where it is installed.**
- **Before carrying out any operations, check that:**
- **The voltage indicated on the maker's plate of the appliance corresponds to the mains voltage,**
- **The power grid is adapted to the power requirements of the appliance, and is grounded.**
- **The plug (where applicable) is suitable for the socket.**
- **In the event of abnormal function or the release of odours from the appliance, turn it of immediately, unplug it from its power supply and contact a professional.**
- **Before any intervention on the appliance, ensure that the latter is switched off and disconnected from the power supply, in addition to any other equipment connected to the appliance, and that the heating priority (where applicable) is deactivated.**
- **Do not disconnect and reconnect the appliance to the power supply when in operation.**
- **Do not pull on the power cord to disconnect it from the power supply.**
- **Do not handle the electrical elements with wet hands.**
- **Clean the terminal board or the power supply socket before connection.**
- **For any component or sub-assembly containing a battery: do not recharge or dismantle the battery, or throw it into a fire. Do not expose it to high temperatures or direct sunlight.**
- **In stormy weather, unplug the appliance to prevent it from suffering lightning damage.**
- **Do not immerse the appliance in water (with the exception of cleaners) or mud.**
- **Only use minerals specifically intended for use with the Hydroxinator®. Using any other type of mineral or salt automatically voids the warranty.**

Recycling

This symbol means that your appliance should not be disposed of with other rubbish. It should be selectively sorted so that it can be re-used, recycled or transformed. If it contains any substances that may be harmful to the environment, these will be disposed of or neutralised.
Contact your retailer for recycling information.

⚠
- **Before you do anything with the device, it is vital that you read this installation and user manual, as well as the "warnings and warranty" booklet delivered with the device. Failure to do so may result in material damage or serious or fatal injury and will invalidate the warranty.**
- **Save these instructions for future reference for service and maintenance.**
- **It is prohibited to distribute or modify this document in any way without authorisation from Zodiac®.**
- **Zodiac® is constantly developing its products to improve their quality; therefore, the information contained in this document may be modified without notice.**

CONTENTS

ℹ **Tip: to make it easier to contact your dealer**
- Write down your dealer's contact details to help you find them more easily and fill in the "product" information on the back of the manual; your dealer will ask you for this information.

⚙ ① Specifications

◐ 1.1 I Description

A	Control box
B	Cell
C	Flow controller kit
D	Bag of accessories

◐ 1.2 I Technical specifications

|	Minimum	Maximum
Power supply voltage	230 Vac-50 Hz	
Electric power	195W	
Protection index	IP23	
Box size (l x h x d)	31 x 33 x 11 cm	
Cell size (L x d)	30 x 10 cm	
Weight (box + cell)	7 Kg	
	Minimum	Maximum
Flow through the cell	5m³/h	18m³/h
Pressure in the cell	/	2.75 bars
Operating water temperature	5 °C	40 °C

⊗ **2.1 I Preparing the pool**

2.1.1 Filtration and filter medium

The exclusive magnesium-based treatment system is designed to operate at optimum efficiency when used with a properly designed and sized filtration system, and with the Zodiac® Crystal Clear glass filtration medium (not sand).
Filter filling procedure:
• Pour clean water into the filter's tank to cover the side diffusers and start lowering the filter medium 🅐.
• Use a plastic bag to cover the filter's upper diffuser when filling it (to prevent any filter medium from getting into it).
• Then pour the filter medium according to the following ratio:
  - approximately 1/4 to 1/3 of the total weight required with "large" Zodiac® Crystal Clear glass medium (1.0/3.0 mm), to cover the side diffusers 🅑.
  - approximately 2/3 to 3/4 of the total weight required with "fine" Zodiac® Crystal Clear glass medium (0.5/1.5 mm) 🅒.
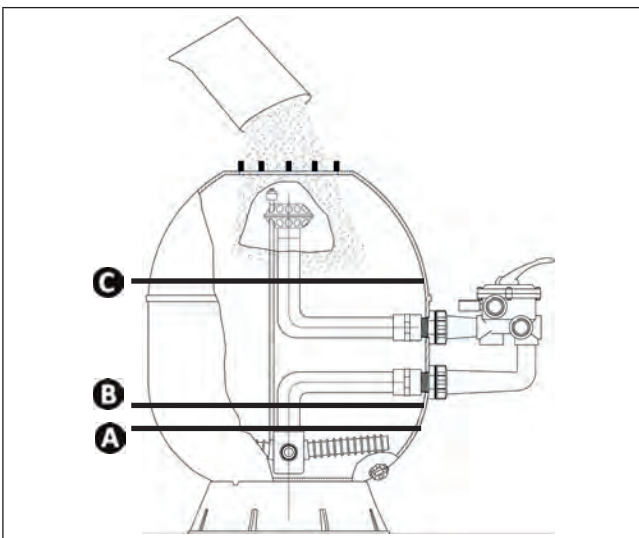
🅒: "Fine" Zodiac® Crystal Clear level

🅑: "Large" Zodiac® Crystal Clear level

🅐: Water level

ℹ️ **Tip: connecting the filter and the filtration pump**
• Refer to the filter and pump installation and user manuals for more details. Consult your Zodiac® distributor if necessary.

2.1.2 Water balance

It is essential that the pool water balance is controlled and adjusted before the appliance is installed. Making sure that the pool water balance is correct from the very start will reduce the likelihood of encountering problems on the first days of operation or during the season the pool is in use.

	Unit	Recommended values	To increase	To reduce	Test frequency (in the season)
pH	/	7.2 – 7.4	Add pH+ or use automatic regulation	Add pH- or use automatic regulation	Weekly
Free chlorine	mg/L or ppm	0.5 – 2	Increase the appliance's disinfectant production or use the "Boost" mode	Reduce the disinfectant production	Weekly
Total alkalinity (alkalinity or buffer power)	°f (ppm)	8 – 15 (80 – 150)	Add alkaline corrector (Alca+ or TAC+)	Add hydrochloric acid	Monthly
TH* (level of calcium carbonate)	°f (ppm)	10 – 30 (100 – 300)	Add calcium chloride	Add a calcium carbonate sequestering agent (Calci-) or carry out carbonate removal	Monthly
Cyanuric acid (stabiliser)	mg/L or ppm	< 30	Only add cyanuric acid if necessary (Chlor Stab)	Partially empty the pool and refill it	Quarterly
Minerals	g/L or kg/m³	4	Add minerals	Leave as such or partially empty the pool and refill it	Quarterly
Metals (Cu, Fe, Mn, etc.)	mg/L or ppm	± 0	/	Add a metal fixer (Metal Free)	Quarterly

> **Tip: maintain a constant water balance**
> • Even though it is an autonomous system, it is essential to regularly analyse the water to check the water balance parameters.

2.2 I Installing the control box

The control box must be installed in a ventilated technical room, free from all traces of damp, free from stored pool maintenance products and free from freezing temperatures.
• It must not be installed more than 1.8 metres from the cell (maximum cable length).
• The control box must be installed at a minimum distance from the pool's surrounding edge. This distance is determined by the electrical standards which apply in the installation country.
• If the box is fixed to a post, a watertight panel must be fixed behind the control box (350x400 mm minimum).
• Fix the support solidly to the wall or the watertight panel, and place the power pack on it using the screws provided.

❯ 2.3 I Installing the cell

> ⚠️
> - **The cell must be installed horizontally to ensure proper operation and to avoid gas build up which can lead to equipment damage or serious injury.**
> - **The cell must always be the last element placed on the pool return pipe (see diagram).**
> - **It is always recommended to install the cell on a by-pass. This assembly is MANDATORY if the flow is in excess of 18 m³/hour to avoid load loss.**
> - **If you install the cell on a by-pass, it is recommended to fit a check valve downstream from the cell instead of a manual valve, to avoid the risk of an improper setting which could result in the incorrect flow of water back into the cell.**
> - **The two red wires can be connected to one or the other red terminals on the electrode.**

- The cell must be installed on the piping after the filtering, after any measurement sensors, and after eventual heating systems.
- Ideally the water should flow from the electric connections towards the opposite side.
- Use the screw-on fittings to fix the cell to the pipes. For Ø63 mm pipes, glue them directly to the screw-on fittings. For Ø50 mm pipes, use glue-on PVC adapters of the corresponding diameter (grey models; the white models are for 1 ½'' UK pipes).
- Connect the cell power supply cable following the wire colour codes (red, black and blue connectors) and then refit the protective cap.
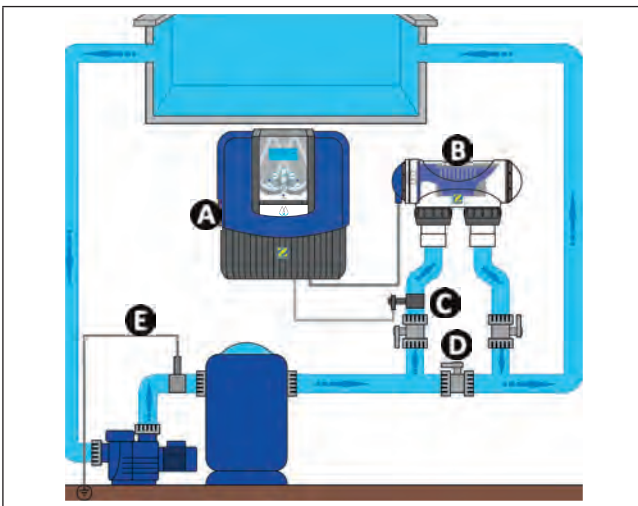
Ⓐ: Hydroxinator®
Ⓑ: Cell
Ⓒ: Flow controller
Ⓓ: by-pass
Ⓔ: earthing

❯ 2.4 I Installing the flow controller

> ⚠️
> - **Failure to follow these instructions could lead to the destruction of the cell (see § "2.3 I Installing the cell"). The manufacturer cannot be held liable in this case.**
> - **The flow detector has a direction for installation (arrow indicated on it showing the water direction). Make sure that is is correctly placed on its fixture collar so that it stops the disinfectant production when filtering is stopped (red «Flow» indicator on showing the absence of flow, see § "❺ Troubleshooting").**

The flow controller and its fixture collar (Ø50 mm) must imperatively be installed on the piping close to the cell and upstream from it. Use the threaded adapter and Teflon tape supplied to install the flow controller on its fixture collar.
- Cell installed on a by-pass: the flow controller must be installed on the cell by-pass between the upstream isolation valve and the cell itself.
- Cell installed in line: the flow controller must be installed just in front of the cell and after a possible valve.
- Tighten the flow controller using the tightening nut only (tighten by hand).

Water circulation direction	✓	✗

2.5 I Electric connections

2.5.1 Connecting the control box

> ⚠ • **Whichever connection is used, it is mandatory to programme the Hydroxinator® operating times (called "Timers") (see § "3.3.2 Programming menu (Timers)").**

The appliance can be connected in several different ways (in compliance with the applicable standards in the country of installation).
- Preferred connection: the appliance is connected to a permanent power supply separated from the filtering thanks to the presence of the flow controller (power supply protected by a specific 30mA ground fault circuit breaker).
- Possible connection: directly coupled to the pool filtering (the appliance is only supplied with power when filtering is operating).
- Optional connection: the female connector located under the box is designed for the direct connection of a filtering pump (230Vac-50Hz, maximum consumption 9A). In this case, use the supplied corresponding male connector (which will allow the Hydroxinator® programmer to control both filtering and disinfecting times).
- When all connections have been completed and all glued assemblies have dried, reconnect the mains power supply to power on the appliance.

2.5.2 Connection to an electric rolling shutter

If the pool is fitted with an electric rolling shutter, it can be connected to the Hydroxinator® so that the Hydroxinator® automatically adapts its disinfectant production when the shutter is closed (see § "3.2.2 "Low" mode").
- Make sure that power to the appliance is disconnected.
- Remove the blue protective cover ❶.
- Remove the 4 lower module fixture screws and remove the module ❷. The bottom of the electric board is now visible (called "PCB" on the diagrams below).
- If the appliance is equipped with a water balance regulation module, follow the installation steps to mount the module (see the module's installation and user manual).
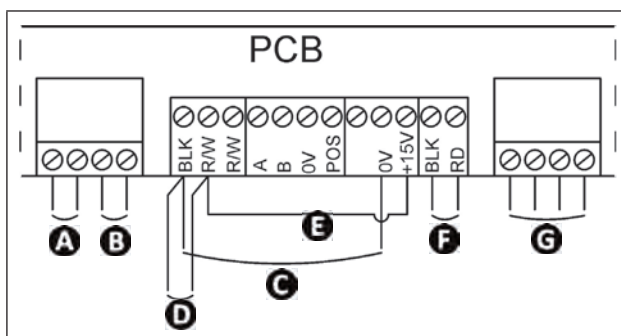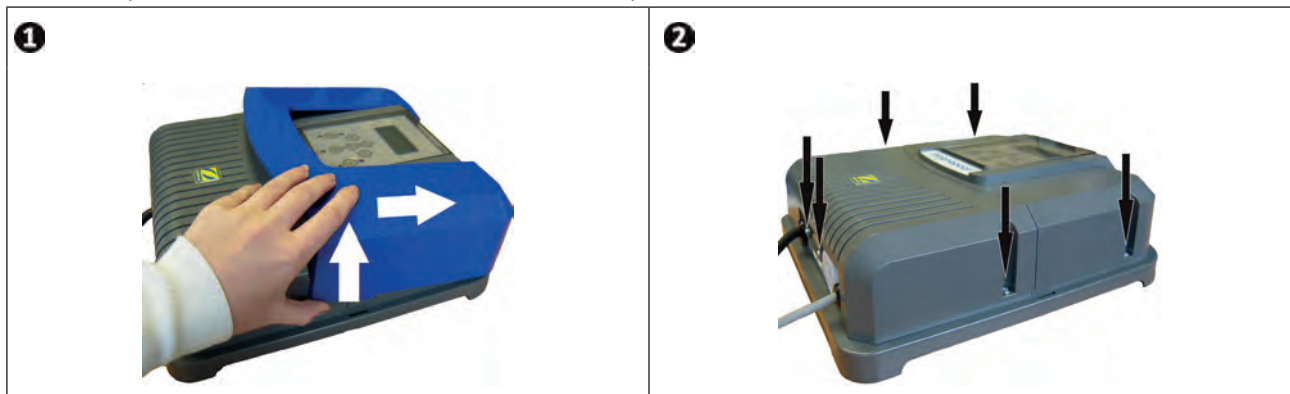
ⓐ: Cell power supply
ⓑ: Flow controller
ⓒ: Shutter connection with an end of run dry contact
ⓓ: Shutter connection sending a closure signal
ⓔ: Shunt
ⓕ: Fan
ⓖ: 230V-50Hz power supply

Shutter with an end of run dry contact (shutter closed = contact closed)
- Shunt the left hand "R/W" and "+15V" terminals **ⓔ**, then connect the dry contact from the shutter to the "BLK" and "0V" terminals **ⓒ**.

Shutter sending a closure signal (shutter closed = LV 12-24 V dc)
- Connect the casing to the "BLK" terminal» and the positive (12-24 Vdc) to the left "R/W" terminal **ⓓ**.

> ℹ **Tip: compatibility with the roller shutters**
> • This appliance is compatible with several different types of electric shutter. However, certain systems may not be compatible. In this case, activate the "Low" mode manually using its specific button on the Hydroxinator® control panel (see § "3.2.2 "Low" mode").

2.5.3 Connection to an external controller (Automation)

The Hydroxinator® is compatible with certain types of remote control for pools ("automation"). It has especially been designed to operate on the Zodiac® AquaLink® TRi system.

- Make sure that power to the appliance is disconnected.
- Remove the blue protective cover and the lower module (see § "2.5.2 Connection to an electric rolling shutter"). If the appliance is already fitted with a water balance regulation module, carefully disconnect its connection braid before removing the module.
- Remove the small white cap covering the hole designed to pass the "RS485" type connection cable (available as an accessory) between the Hydroxinator® and the automation system.
- Pass the "RS485" cable from the automation system through the hole. Place a cable tie on the controller wire to prevent it from being pulled off.
- Wind the "RS485" cable three times around a ferrite (not supplied).
- Depending on the brand and type of external automation system, complete the following connections for the cable to be connected **C**
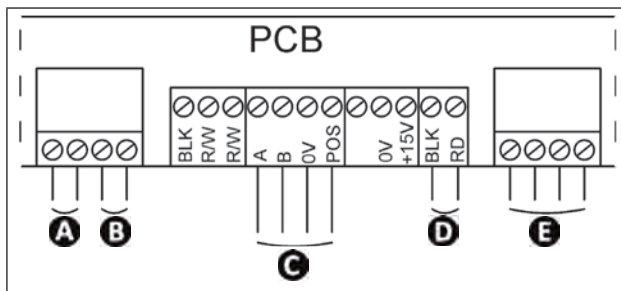
A: Cell power supply
B: Flow controller
C: External controller RS485 connection
D: Fan
E: 230V-50Hz power supply

Zodiac® AquaLink® TRi, Jandy AquaLink® and Polaris EOS:	Pentair® Intellitouch:
- A Terminal = black wire - B Terminal = yellow wire - 0V Terminal = green wire - POS Terminal = red wire	- A Terminal = yellow wire - B Terminal = green wire - 0V Terminal = black wire - POS Terminal = red wire

- Close the Hydroxinator® control box cover.
- Make sure the automation system is switched off, then power on the Hydroxinator®.
- Go to the `- CONTROLLER ←` menu on the Hydroxinator® and select the corresponding model from the list (see § "3.3.4 External controller menu (Automation)"). The default setting is `-AQUALINK TRi ←`.
- Switch on the automation system and wait for a few seconds.
- If the connection is successful the `15:31 ON ↑` symbol will appear in the top right corner of the Hydroxinator® screen.

Tip: connection to the control system
- If the connection fails, switch off both the automation system and the Hydroxinator®, check all the electric connections and repeat the test. It may be necessary to reinitialise the appliance. To do this press on ⬆ and ⬇ simultaneously: the time will need to be reset on the appliance. Consult the automation system user manual if necessary.
- Once the Hydroxinator® is connected to an automation system it will only be possible to access its menu via its control panel. The modification of all disinfectant production related settings will from now on be managed using the automation system user interfaces.
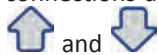
▶ ❸ Use

❯ 3.1 I Operating principle

This exclusive treatment system combines natural minerals, magnesium and potassium (placed in solution in the pool) to purify the water while providing an unrivalled bathing experience.

This water treatment solution converts the magnesium minerals naturally into magnesium hydroxide, which acts as a clarifier to retain even the finest impurities present in the water. Without impurities, the bacteria no longer develop and are eliminated from the pool. Combination with the Crystal Clear filter medium (glass crystals) is vital to retain the impurities in the filter and enables water to be saved during backflushing.

The Hydroxinator® then generates non-synthetic chlorine: this is the hydroxination phenomenon. With no chemicals added, the chlorine produced protects the integrity and quality of the water, without harming the environment in which it is used.

❯ 3.2 I User interface presentation

MENU	Access the user menu or return
⬆ ⬇	From the home screen: increase or decrease in disinfectant production. On the user menu: navigation in the menu options and value changes when a choice is proposed.
SELECT	Validate a selection or access a sub-menu
⏻	Start or stop disinfectant production
BOOST	Activate super-production for a total period of 24 hours (blue indicator on)
LOW	Blocks disinfectant production at 10% (blue indicator on)
FLOW	Red indicator showing the absence of flow
POWER	Blue indicator showing disinfectant production (flashes if an error message is displayed, see § "❺ Troubleshooting")
MINERALS	Orange indicator showing a water conductivity problem (not enough minerals, water too cold etc.)

> **ℹ** **Tip: several languages are available for the interface**
> • If the language displayed on the screen when the appliance is first powered is not appropriate, see § "3.3.5 Languages menu".

3.2.1 "Boost" mode

In certain cases your pool may need higher than normal disinfecting (stormy weather, high number of bathers, etc.). "Boost" mode is used to increase the disinfectant rate quickly.

• Press the (BOOST) button: [B O O S T] is displayed on the screen and 100% production starts.

> **ℹ** **Tip: using "Boost" mode**
> • When the "Boost" mode is activated, the nominal production settings are temporarily overridden and the appliance will operate for a total of 24 hours at a 100% production level. The number of days will then depend on the appliance's operating times (see § "3.3.2 Programming menu (Timers)").
> • The "Boost" mode cannot be started or stopped in the following conditions:
>   - If the appliance is switched off,
>   - If the appliance is connected to an automation system (the «Boost» mode is then driven from the automation system user interface).

3.2.2 "Low" mode

If your pool has a covering system (shelter, shutter, cover, etc.), "Low" mode is designed to adapt disinfectant production to situations where the pool is covered (lower needs). This mode is also called "Shutter" or "Winter" mode. Its effect is to limit disinfectant production to 10%.

<u>Manual activation</u> (shelter, cover, winter use, etc.): :

- Press ⏣ : `L O W   M O D E          1 0 %` is displayed on the screen and disinfectant production is reduced to 10%.

- To stop this mode: press ⏣ again.

<u>Automatic activation</u> (compatible with electric rolling shutter):
- Make sure the shutter is compatible and connected to the Hydroxinator® (see § "2.5.2 Connection to an electric rolling shutter").
- "Low" mode will automatically be activated when the shutter is closed.
- "Low" mode will stop as soon as the cover is completely open (after a timer of a few minutes).

> **ℹ Tip: using "Low" mode**
> "Low" mode cannot be started or stopped in the following conditions:
> - If the appliance is switched off,
> - If the appliance is connected to an automation system but is not connected to a rolling shutter ("Low" mode is then driven from the automation system user interface).

❯ 3.3 I Settings
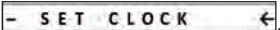
To access the menu, press ⏣ from the home page.

To browse the menus and modify the values, press ⬆ or ⬇ .

To validate a choice and enter a sub-menu, press ⏣ .

Press ⏣ to return to the home screen.

3.3.1 Clock Menu

- Access the menu and go to `-   S E T   C L O C K          ←`.
- The time is displayed in a 24 hour format.
- Set the time then the minutes.

- Press ⏣ each time to save.
- The appliance will then automatically return to the main menu at the end.

> **ℹ Tip: accumulator charge to save the parameters if the electricity supply is lost**
> - The Hydroxinator® is fitted with an internal memory. When the appliance is first switched on it is important to leave it powered on continuously for at least 24 hours in order to initially charge the accumulator (permanent separate power supply or filtering on permanently). Once charged the accumulator has several weeks of autonomy in the event of a power failure.
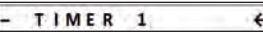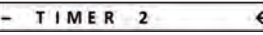
3.3.2 Programming menu (Timers)

⚠️
- **"Timer" programming is used to define the Hydroxinator® operating times within the filtering system operation times. The daily operating times must be sufficient to correctly treat the water.**
- **A reminder of the calculation rule (with a single speed filtration pump): the ideal daily filtering time is obtained by dividing the required pool water temperature (measured in °C) by 2. Example: for water at 28 °C, time = 28/2 = 14 hours per day.**
- **The Hydroxinator® is fitted with a safety device to prevent disinfectant overproduction. It switches off the appliance after 30 hours of continuous disinfection (no "Timers(s)" memorised and filtering in continuous mode (manual mode)). Pressing the ⏻ button will restart production if necessary.**
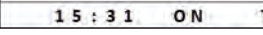
The Hydroxinator® has two programmers to control disinfectant production times. These are called "Timers" or "Operating time intervals".
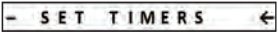
Creating a "Timer":
- Access the menu and go to `- SET TIMERS ←`.
- Select the Timer to be set (`- TIMER 1 ←` or `- TIMER 2 ←`).
- Set the start time then the start minutes.
- Set the stop time then the stop minutes.
- Press (SELECT) each time to save.
- The appliance will return to the `- SET TIMERS ←` menu automatically.

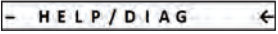ℹ️ **Tip: checking that the "Timers" have been correctly saved**
- The `15:31 ON T` symbol is displayed in the upper right hand corner of the LCD display on the home screen if the programming is valid.

Deleting a "Timer":
- Access the menu and go to `- SET TIMERS ←`.
- Select `- CLEAR TIMERS ←` then press (SELECT). A message confirming the deletion will be shown on the screen.

3.3.3 Troubleshooting menu

The Hydroxinator® automatically notifies you of any problems using error messages. To help with the understanding of these messages the appliance has a troubleshooting assistance menu which gives the meanings and the action to take to solve the problem.
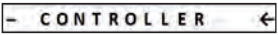- Access the menu and go to `- HELP/DIAG ←`.
- Select the error message.
- A certain number of suggestions and solutions will automatically be scrolled to explain what to do. Once the automatic scrolling is complete, the appliance automatically returns to the `- HELP/DIAG ←` menu.

3.3.4 External controller menu (Automation)

⚠️
- **The automation system must imperatively have its settings positioned before the connection becomes active (external controller switched off, see § "2.5.3 Connection to an external controller (Automotion)").**

By default the Hydroxinator® is set to be connected to a Zodiac® AquaLink® TRi system.
- Access the menu and go to `- CONTROLLER ←`.
- Select the external controller version.
- Press (SELECT) to save.
- The appliance will then automatically return to the main menu.
- Switch on the automation system and wait for the `15:31 ON ₮` symbol to appear in the top right hand corner of the Hydroxinator® home screen, meaning that the connection was successful.

3.3.5 Languages menu

By default the Hydroxinator® is set to display in French. Seven languages are available: English, French, Spanish, German, Italian, Dutch and Afrikaans.

- Access the menu and go to `- SET LANGUAGE ←`.
- Select the language required.
- Press to save the selection.
- The appliance will then automatically return to the main menu.

❯ 3.4 I Starting treatment

3.4.1 Adding minerals

> ⚠
> - **It is important to add the minerals according to the procedure below before starting the Hydroxinator®.**
> - **The minerals must be added to a pool with fresh water (tap water only, well water prohibited). For an installation in an existing pool, the pool must be drained first and filled with fresh water (follow the pool manufacturer's recommendations for drainage).**
> - **The filtration must be running when the minerals are added.**
> - **Always pour in full bags, do not keep any open mineral bags (the minerals are damaged by dampness).**

The quantity of MagnaPool™ minerals necessary for the system to operate correctly must be 4 g/L (= 4 kg/m³, 4000 ppm or 0.4 %), for this you must add 5 kg/m³ (as the minerals contain a little water).

Pool volume (m³)	20	30	40	45	50	55	60	65	70	80	90
Number of kg to be added	100	150	200	225	250	275	300	325	350	400	450

- Add the minerals by pouring the bags evenly and directly around the edges of the pool. Keep the last bag to be used to the side.
- Start up the filtration and the Hydroxinator®, making sure that the Hydroxinator® is set to "Boost" mode (see § "3.2.1 "Boost" mode").
- Gradually pour the contents of the last bag kept to the side earlier directly in front of one of the skimmers, which will "boost" the start of the Hydroxinator®.
- Leave the filtration in forced operation for 24 hours, then return to normal daily operation.

3.4.2 Activating the treatment

This exclusive magnesium-based treatment system is specific; therefore, you must understand the following steps.
- Once they are poured into the pool water, the minerals will turn it slightly milky and some harmless foam may also appear on the surface of the water. This is perfectly normal and shows the initial hydroxination action of the magnesium present in the minerals.
- Within 7 to 10 days after the minerals are added, the water will become perfectly clear and you will have unrivalled clarity and bathing comfort.
- You may need to perform a short filter backwash to remove any debris from the equipment installation. Refer to the filter's pressure indicator and its user manual.

> ℹ **Tip: incorporating minerals**
> - This slightly milky appearance with some harmless foam on the surface may last for a few days depending on the type of pool and the daily filtration cycles used (ideally you should run the filtration for at least 12 hours per day during this activation phase).
> - To facilitate the activation of the treatment, it is preferable that you do not swim in the pool during this short period.
> - The cleaning robots may also have trouble climbing the pool walls. It is best to use them in "bottom only" mode if they have this function. They will regain their normal operation when the water is clear again.

❯ 4.1 I Winterizing

The Hydroxinator® has a protective system to limit disinfectant production under less than ideal operating conditions such as cold water (winter) or a lack of salt.
- Active wintering = filtering operational in winter: if the water temperature is below 10 °C it is preferable to switch off the appliance. Above this temperature you can leave it running.
- Passive wintering = lower water level and drained piping: leave the electrode dry in its cell with its isolation valves open.

❯ 4.2 I Cleaning the electrode

- Turn off the Hydroxinator® and the filtration, close the isolation valves, remove the protection cover and disconnect the cell power cable.
- Unscrew the tightening ring and remove the electrode from the body of the cell. The ring is notched thus allowing a lever to be used in the event of it jamming. Place the electrode in a cleaning solution without immersing the connection terminals.
- Leave the cleaning solution to dissolve the scale deposit for about 15 minutes. Dispose of the cleaning solution at an approved waste recycling site, never pour into the rainwater drainage system or into the sewers.
- Rinse the electrode using clean water and refit it into the body of the cell (there is a fail-safe on the alignment).
- Refit the tightening ring, reconnect the cell cable and refit the protective cover. Open the isolation valves again and restart the filtration and the Hydroxinator®.

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<table>
<tr><td rowspan="2">ℹ️</td><td><u>Tip: cleaning the electrode</u>
• The appliance is equipped with a smart polarity inversion system designed to prevent the electrode plates from scaling. However cleaning may be required in regions where the water is very hard.
• If you do not use a commercially available cleaning solution, you can manufacture it yourself by carefully mixing 1 volume of hydrochloric acid with 9 volumes of water (Warning: always pour the acid into the water and not the opposite and wear suitable protective equipment!).</td></tr>
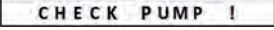<tr><td>• If the water is too hard (high carbonate content, TH>40 °f or 400 ppm), it is possible to change the polarity inversion cycle times on your Hydroxinator® to have more effective electrode self-cleaning. Consult your reseller if you are in this situation (professional access).</td></tr>
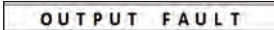</table>
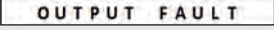
🔍 **⑤ Troubleshooting**

> ⚠️
> - **Before you contact your reseller, please carry out these few simple checks using the following tables if a problem occurs.**
> - **If the problem continues contact your reseller.**
> - 👷 **: Actions only to be carried out by a qualified technician**

Message	Possible causes	Solutions
CHECK MINERALS + **MINERALS** lit	• Lack of minerals (< 5 g/l) due to water loss or dilution (filter backflush, water renewal, rain, leaks, etc.). • Pool water temperature too low (< 18 °C, variable).	• Add minerals to the pool to keep the level at 4 g/l. If you do not know the mineral level or how to test it, consult your reseller • Basic production limitation signal when the water is too cold. Reduce disinfectant production or add minerals to compensate
CHECK CELL	• Calcium carbonate level (HL) too high. • Electrode too old. • Scaled cell.	• Clean and/or check the filtering system (pump and filter). • Check the calcium carbonate levels (HL) and add calcium carbonate sequestrant if necessary (Calci-). • 👷 Replace the electrode. • Clean the cell.
CLEANING	• The self-cleaning cycle is automatic; this message is not an error code but an information message	• Wait for about 10 minutes and chlorine production will resume automatically at the previously set level
OUTPUT FAULT	• Cell power supply cable disconnected or not properly connected • Internal electronic problem in the control box following an external electric incident	• Switch off the appliance (⏻ button) and switch off the power supply to the control box, then check that all the cables are properly connected (mains power supply, cell, etc...).
NO FLOW ! + **CHECK PUMP !** + **FLOW** lit The messages are displayed alternatively every 3 minutes.	• Failure of the filtering pump • The filter and/or the skimmer(s) are dirty • By-pass valves closed • Flow controller and/or cell disconnected or defective	• Check the pump, the filter, the skimmer(s), and the by-pass valves. Clean them if necessary • Check the cable connections (cell and flow controller) • Check that the flow controller is working correctly (replace it if necessary)

If the problem continues contact your reseller.

> ℹ️ **Tip: cancelling the messages**
>
> To cancel the **CHECK CELL** and **OUTPUT FAULT** error messages, press 🔘 SELECT for 3 or 4 seconds when the message appears.
> The other codes are only information messages that disappear automatically when the operating conditions return to optimal.

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