

eXO[®] (iQ) / GenSalt OT



Instructions for installation and use - English Salt water chlorinator, pH/Redox regulation Translation of the original instructions in french

pH Link / Dual Link



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ΕN





GENERAL WARNINGS

- Failure to respect the warnings may cause serious damage to the pool equipment or cause serious injury, even death.
- Only a person qualified in the technical fields concerned (electricity, hydraulics or refrigeration) is authorised to perform this procedure. The qualified technician working on the appliance must use/wear personal protective equipment (such as safety goggles and protective gloves, etc.) in order to reduce the risk of injury occurring when working on the appliance. Before handling the machine, ensure that it is switched off and isolated.
- The appliance is intended to be used for pools and spas for a specific purpose; it must not be used for any purpose other than that for which it was designed.
- It is important that the appliance is operated by people who are competent and qualified (both physically and mentally), after having read the instructions for 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 appliance must be installed according to the manufacturer's instructions and in compliance with local standards. The installer is responsible for installing the appliance and for compliance with national installation regulations. Under no circumstances may the manufacturer be held liable in the event of failure to comply with applicable local installation standards.
- For any work other than the simple user maintenance described in this manual, the product should be referred to a qualified professional.
- Incorrect installation and/or use may cause serious damage to property or serious injuries (possibly causing death).
- All equipment, even postage and packing paid, travels at the risks and perils of the recipient. The latter shall issue reserves in writing on the carrier's delivery slip if damage is detected, caused during transport (confirmation to be sent to the carrier within 48 hours by registered letter). In the event that an appliance containing coolant has been turned on its side, mention your reservations in writing to the carrier. If the appliance suffers a malfunction, do not try to repair it yourself; instead contact a qualified technician.
- Refer to the warranty conditions for details of the permitted water balance values for operating the appliance.
- Deactivating, eliminating or by-passing any of the safety mechanisms integrated into the appliance shall automatically void the warranty, in addition to the use of spare parts manufactured by unauthorised third-party manufacturers. Do not spray insecticide or any other chemical (both flammable and non-flammable) in the direction of the appliance, as this may damage the
- body and cause a fire
- Zodiac[®] heat pump, filter pump and filter appliances are compatible with the most commonly used types of pool water treatment systems. Do not touch the fan or moving parts and do not place a rod or your fingers in the vicinity of the moving parts during operation of the appliance. Moving parts can cause serious injury or even death.

WARNINGS ASSOCIATED WITH ELECTRICAL APPLIANCES

- The power supply to the appliance must be protected by a dedicated 30 mA residual current device, complying with the standards and regulations in force in the country in which it is installed.
- Do not use any extension lead when connecting the appliance; plug the appliance directly into a suitable wall socket.
- Before carrying out any operations, check that:
 - The voltage indicated on the appliance information plate 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 operation or the release of odours from the appliance, turn it off immediately, unplug it from its power supply and contact a professional.
- Before any intervention on the appliance, ensure that the appliance is switched off and disconnected from the power supply. Additionally, heating priority (if applicable) should be deactivated and all power to any other equipment that may be connected to the appliance should also be disconnected.
- 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.
- If the power cord is damaged, it must be replaced by the manufacturer, its technician or a qualified person to guarantee safety. Do not perform maintenance or servicing operations on the appliance with wet hands or if the appliance is wet.

- 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. .

SPECIFIC FEATURES APPLICABLE TO "Pool cleaners"

- The cleaner must operate in pool water at a temperature of between 15°C and 35°C.
- To avoid possible injury or damage to the cleaner, do not operate the cleaner out of the water.
- In order to prevent possible injury, bathing is prohibited when your cleaner is in the pool.
- Do not use the cleaner during shock chlorination.
- Do not leave the cleaner unattended for an extended period.

WARNING ON THE USE OF A CLEANER IN A POOL WITH A VINYL SURFACE:

- Before installing your new cleaner, carefully inspect the lining of your pool. If the liner has eroded in some areas, or if you notice gravel, folds, roots or corrosion caused by metal beneath the liner, or if you notice that the surface (bottom and walls) is damaged, do not install the cleaner before performing the necessary repairs or before having the liner replaced by a qualified professional. The manufacturer may not be held liable in any way for damage caused to the liner. The surface of certain vinyl patterned surfaces can wear rapidly and the patterns disappear on contact from objects such as cleaning brushes,
- toys, inflatable buoys, chlorine distributors and automatic pool cleaners. The decoration on some vinyl surfaces can be scratched or worn by basic friction such as through the use of a pool brush. The colours of certain patterns can also be erased during use or when in contact with objects in the pool. The manufacturer may not be held liable for the erased patterns, wear or scratching of vinyl surfaces, which are not covered by the limited warranty.

Recycling

 $_{Z}$ This symbol means that your appliance must not be thrown into a normal bin. It will be selectively collected for the purpose of reuse, recycling or transformation. If it contains any substances that may be harmful to the environment, these will be eliminated a or neutralised.

Contact your retailer for recycling information.

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- Before handling the appliance, it is vital that you read this installation and user manual, as well as the "warnings and warranty" booklet delivered with the appliance. Failure to do so may result in material damage or serious or fatal injury and will void the warranty.
- Keep and pass on these documents for later consultation during the appliance's service life.
- The distribution or modification of this document in any way is prohibited, without prior authorisation from Zodiac[®].
- Zodiac[®] is constantly developing its products to improve their quality. The information contained herein may therefore be modified without notice.

Specifications

1.1 I Package content

1.1.1 Chlorinator



		eXO® (iQ)	GenSalt OT
А	Control box	\diamond	\mathbf{O}
В	Electrolytic cell	Ø	Ø
С	Glue-on adapter and union coupling kit for electrolytic cell	\bigcirc	
D	Hanging bracket wall-mounting kit	Ø	Ø
Е	Flow rate detector with installation kit	Ø	\bigcirc
F	Temperature sensor with installation kit	Ø	
G	pH Link module (for measuring and automatically regulating pH levels)	•	0
н	Dual Link module (for measuring and automatically regulating pH and chlorine levels)	0	

Supplied:

: Available as an option

1.1.2 Optional pH Link or Dual Link modules



		pH Link	Dual Link
А	pH Link or Dual Link modules		
В	POD kit	\bigcirc	\bigcirc
С	Hole saw for installing the POD kit	⊘	\bigcirc
D	Threaded sensor holder(s)		
E	pH sensor + pH 7 (x3) & pH 4 (x3) buffer solutions	⊘	\bigcirc
F	ORP sensor + ORP 470 mV (x3) buffer solutions		\bigcirc
G	Suction + injection hose (5 metres)	♥	♥
н	Assembly accessories bag (2 threaded caps, 1 ceramic weight with support tip, Teflon tape)		•

Supplied:



1.2 I Technical specifications

1.2.1 Chlorinator

		eXO [®] (iQ) 10 GenSalt OT 10	eXO [®] (iQ) 18 GenSalt OT 18	eXO® (iQ) 22	GenSalt OT 25	eXO® (iQ) 35							
Nominal chlorine produc	tion	10 g/h	18 g/h	22 g/h	25 g/h	35 g/h							
Nominal output current		2.8 A	3.6 A	5 A	5 A	7.2 A							
Recommended salinity - min.	Standard salinity		g/L - 3,3 g/L T : 3,0 g/L m										
- 11111.	Low salinity	2 g/L - 1,	6 g/L mini		/								
Power supply voltage) - 240V -60 Hz									
Electric power			200 W	maximum									
Protection index				IP43									
Flow rate in the cell (min maximum)	imum/		5m³⁄h	ı < 18m∛h									
Maximum pressure allow cell	ved in the	2.75 bars											
Operating water tempera	ature		5°C	C < 40°C									

1.2.2 Optional pH Link or Dual Link modules

	pH Link	Dual Link					
Power supply voltage	Extra-low voltage (conn	ected to the control box)					
Peristaltic pump flow rate	1.2	L/h					
Maximum back pressure (injection)	1.5	bars					
pH and ORP sensor type	combined (pH =	blue / ACL = red)					
pH correction	pH minus only (hydroc	hloric or sulphuric acid)					
pH minus dosage	Proportio	onal cyclic					
pH sensor calibration	1 or 2 points (pH 4 and pH 7)					
ORP sensor tolerances	/	10 ppm maximum (shock chlorination)					
ORP sensor calibration		1 point (470 mV)					
Sensor cable length	3 metres						

2 Installing the saltwater chlorinator

2.1 I Installing the cell

• The cell must be installed on the piping after the filtering, after any measurement sensors and after any heating systems.



Installing the saltwater chlorinator only (Example with eXO[®] (iQ))

(Example with eXO[®] (iQ))

- 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 head loss.
- If you installed the cell on a by-pass, it is recommended to fit a check valve downstream from the cell and not a manual valve, to avoid any risk of incorrect setting which could cause poor circulation in the cell.



- Make sure that the cell is placed HORIZONTALLY. 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 63 mm pipes, glue them directly to the screw-on fittings. For 50 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 cord following the wire colour codes (red, black and blue connectors) and then refit the protective cap. The two red wires can be connected to one or the other red terminals on the electrode.

2.1.1 eXO[®] (iQ) cell

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- The cell must be installed on a horizontal pipe to ensure an essentially horizontal flow of water through it, with no more than a 30 deg angle/slope. The pipe must have a free horizontal length of at least 30cm on which the cell will be installed. The cell must also be installed as far away as possible from any bends or elbows in the plumbing ().
- Ensure that the direction of flow of water through the cell is in accordance with the arrows marked on the cell (see arrows ()).



- Dismantle the cell (**D**).
- Position EU (DN50 mm) hole adapter upside down at the position where the pipe will be installed (
- Use a drill bit or centre-punch to mark the positions of the holes to be drilled on the pipe, remove EU (DN50 mm) hole adapter, and drill the holes using the hole saw supplied.
- Check that the edges are perfectly smooth and deburred (use abrasive paper, for example).
- Clip together the lower and upper parts of the cell collar on the pipe at the holes, respecting the water flow direction (use the "EU" Ø50 reducer for a Ø50 mm pipe).
- Position the top transparent part of the cell (presence of a foolproof locating notch), position the locking ring on the thread of the upper collar by aligning the point () of the collar with the arrow of the collar (), then tighten firmly by hand (do not use a tool).



• Connect the cell power supply cable in compliance with the wire colour codes (red, black and blue connectors) and then fit the protective cap. For GenSalt OT 10, the second red connector will not be connected; leave it as it use before positioning the protective cover.

2.2 I Installing the temperature sensor (in depending to the model)

- The water temperature sensor displays the water temperature value on the appliance screen and manages chlorination according to the temperature. The sensor must measure the temperature of the water upstream of any possible heating system.
- The sensor is designed to be mounted on rigid 50 mm, 63 mm or 1 1/2" diameter PVC pipes. Do not install on any other type of pipe.
- Install the sensor either between the filter pump and the filter, or between the filter and any other downstream equipment, voir **«2.1 | Installing the cell» :**
 - Drill a hole in the pipe using a 9 mm (max. 10 mm) diameter drill bit, then deburr the hole,
 - Install the «O-ring» provided on the sensor body,
 - Secure the sensor using the stainless-steel clamping collar provided. Do not use excess strength.





In cases where a pH Link or Dual Link module is used, the flow switch will be installed on the POD Kit, see **"3.2 I Installing the flow switch on the POD kit"**

- The flow switch and its fixture collar 50 mm diameter originally provided (diameter 63 mm available as a spare part) must be installed just before the cell and after any valve (1). Use the threaded adapter and Teflon tape supplied to install the flow switch on its fixture collar.
- Screw down the flow switch using the clamping nut only (tighten by hand!) (2).



- Failure to comply with these instructions could lead to the destruction of the cell! The manufacturer cannot be held liable in this case.
- The flow switch has a direction for installation (arrow indicated on it showing the flow direction for the water). Make sure that it is correctly placed on its fixture collar so that it stops the salt water chlorinator production when filtering is stopped.

2.4 I Installing the control box



- The control box must be installed in a dry ventilated equipment room protected against frost, with no pool maintenance chemicals or similar products stored nearby.
- The control box must be installed at least 3.5 metres from the outer edge of the pool. Always comply with all applicable installation codes and/or laws that may apply in the area of installation.
- It must not be installed more than 1.8 metres from the cell (maximum cable length).
- If the box is fixed to a post, a watertight panel must be fixed behind the control box (350x400 mm minimum):
 Mount the metal hanging bracket shown below to the wall or a waterproof panel, using the screws and wall plugs provided, (illustration 1).
 - Fix the control box to the metal hanging bracket by moving 1 (downwards) and 2 (rightwards) in order to lock the box onto its bracket, (illustration 2).





<u>Use of Wi-Fi Direct Mode (depending on model)</u>: Take a smartphone (Settings / Wi-Fi menu) and make sure that the home's Wi-Fi network can be detected in order to select the best location for the control box. A Wi-Fi extender or CPL plugs with Wi-Fi hotspot (not supplied) may be necessary in certain specific cases.

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2.5 I Electric connections

Many devices can be connected to the control box in order to control the pool equipment (filter pump, lighting, auxiliary systems, etc.).

The appliance must be permanently plugged in to the power supply (power supply protected by a 30 mA residual current circuit breaker).

2.5.1 Accessing the electrical connection terminal boards

- Make sure that the appliance is powered off.
- Remove the (snap-on) cosmetic cover over the control box, (illustration 1) or 2 depending on the model).
- Remove the control box lower protection cover by unscrewing the two side screws (illustration 3).



2.5.2 Identifying the functions to connect



Messages from the terminal board	Туре	Cable clamp	Functions	eXO® (iQ)	GenSalt OT	With pH Link or Dual Link
SENS	Input	-	Regulator board connection for pH Link & Dual Link modules	/	/	A
PUMP	Input	-	pH regulator pump connection for pH Link & Dual Link modules	/	/	A
CELL	Output	1	Connection for the electrolytic cell	\bigcirc	\bigcirc	\bigcirc
UI	Output	-	Display connection	\bigcirc	\bigcirc	♦
TEMP	Input	3	Connection for the temperature sensor	\bigcirc	/	\bigcirc
Flow	Input	2	Connection for the flow switch	Ø	Ø	♥
iAL RS485	Input	4	Function not used – do not wire	/	/	/
VSP RS485	Output	5	Connection dedicated to controlling the Zodiac® variable-speed filter pump	Đ	/	0
\otimes	/	-	Function not used – do not wire	/	/	/
COVER	Input	7	Connection for the roller shutter/cover for automatically managing the LOW function	0	0	0
SLAVE	Output	8	Connection for an external appliance managing the ON/OFF control for the chlorination system (automatic regulation, etc.).	0	0	/
AUX 2 12- 24V	Output	9	Connection dedicated to the ON/OFF control of a low-voltage device This connection is not an appliance power supply: it manages the ON/OFF function only.	0	0	0
AUX 1 230 V	Output	10	Connection dedicated to the ON/OFF control of a high-voltage device. This connection is not an appliance power supply: it manages the ON/OFF function only.	0	/	0
PUMP 230V	Output	11	Connection dedicated to the power supply for the pool filter pump	Ð	Đ	O
MAINS	Input	12	110-240 VAC - 50/60 Hz mains power supply to the appliance	Ø	Ø	Ø

S: Factory connected

A: Must be connected •: Function to connect (optional)

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2.5.3 Electrical connection steps

- Identify the functions to be connected and identify the location of the cable clamp, see "2.5.2 Identifying the functions to connect".
- Check that the cables used comply with the intended use and with the regulations in force.
- Identify the input for each desired function at the bottom of the control box:



- Run the cable through its cable gland or pierce a hole in the PVC diaphragm (made of rubber) using a screwdriver of the right diameter.
- Identify the electrical connection terminal board for the desired function using the identification fields:



- Fit the cable clamp (supplied) to physically hold the cable clamped against the chassis of the appliance. The cable clamp location is indicated, see **"2.5.2 Identifying the functions to connect".**
- If connected to the chlorinator, the filter pump (at single speed or variable speed) must be grounded using the dedicated grounding stud by crimping an appropriately-sized lug for the wire (not provided).



2.5.4 Connecting a Zodiac® variable speed filter pump (in depending to the model)

The Zodiac[®] variable speed filter pump must be connected in 2 places:

- Mains supply to the «PUMP 230 V» connector.
- RS485 cable (supplied with the pump) to the appliance's «VSP RS485» connector in the following order:



• Ensure the pump switches are in the correct position :

2.5.5 Reassembling the appliance

- Position the lower protection cover (or the pH Link/Dual Link module) onto the control box and screw down the two side screws (illustration 1).
- Snap the cosmetic cover over the control box, (illustration "2 a" or "2 b" depending on the model).



• In a pH Link or Dual Link module is installed, do not reconnect the electricity supply until the module, the POD kit and the pH minus injection pipe have been installed.

3 Installing a pH Link or Dual Link module

3.1 I Installing the POD kit

The POD Kit is a measuring chamber using patented Quick Fix[®] technology for installation on a rigid 50 mm PVC pipe (with supplied adapter) or 63 mm PVC pipe (without adapter). It contains the following components:



3.1.1 Recommended location

- The cell bypass valves must always be open.
- The sensor-holding POD kit must always be positioned on a horizontal pipe so that the sensors are vertical.
- The POD kit must be the first unit fitted after the pool filter.
- If the pool is fitted with an electric heater, the POD kit must be installed before it (to take readings on unheated water).
- We recommend positioning the POD kit more than 20 cm from an elbow in the pipe.
- The sensor cables must not be positioned near high voltage mains electricity cables.



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3.1.2 Preparing the hose

- Identify a suitable length (minimum 30 cm, without an elbow) of straight pipe.
- Disassemble the POD kit to retrieve the EU (DN50 mm) type adapter provided with two perforations, see illustration 1.
- For a DN50 mm pipe use the EU DN50 mm pipe adaptor (otherwise use the DN63 mm lower clamp). Position it on the pipe in a recommended location, see **"3.1.1 Recommended location"**. Use a centre-punch or marker pen to mark the position of the holes to be made in the pipe, **see illustration 2**.
- Using the hole saw supplied, cut the two feed holes for the POD kit, see illustration 3.
- Ensure that the edges of the holes are smooth and deburred, see illustration ④.



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3.1.3 Installing the POD kit on the pipe

- Click the 2 parts of the POD kit together around the pipe. For a 50 mm diameter pipe, use the adapter marked 'EU'. Do not use this adapter for a 63 mm diameter pipe, see illustration 1.
- Install the lower and upper pipe shells from the POD kit onto the pipe so that they match up with the location of the holes and the direction of the water flow (follow the direction shown by the arrows), see illustration 2.
- Position the upper part with its various components in the direction shown by the fool proofing. Align the dot on the clamping ring with the arrow on the lower pipe shell and tighten down the clamping ring (by hand only!), see illustration 3.
- To see whether the tightening is correct, check that the clamping ring is level, see illustration **4**.



3.2 I Installing the flow switch on the POD kit

- Take the flow switch provided with the chlorinator control box.
- Place it inside the housing provided for this purpose on the POD Kit and screw it down.
- Screw it down using the clamping nut only (by hand only!).



• The arrow showing the water circulation direction on the top of the flow switch must be perfectly aligned with the pipe that the POD kit is mounted on.



3.3 I Installing the sensors on the POD kit

- Screw down the one or more sensor holders onto the POD kit, see illustration ①.
- Carefully unscrew the protection tube from the sensor, see illustration 2. Retain the protection tube for use when the sensor is stored during the winter.
- Rinse the end of the sensor with tap water and shake off excess water, see illustration 3.



- Never wipe the sensor using a cloth or paper tissue, as this may damage it!
- A badly-installed sensor may give false readings and cause inappropriate operation of the appliance. Neither the manufacturer nor the appliance shall be liable in this event.
- Screw the sensor into the sensor holder, holding the BLUE or YELLOW connector in one hand and the black connector in the other to avoid tangling the cable, **see illustration 4**.
- Once the sensor is installed on the POD kit, it can be connected to the BNC connector (BLUE = pH; YELLOW = ORP) on the pH Link or Dual Link module, see "2.5.3 Electrical connection steps", see illustration (5).
- Then the sensor is ready for calibration, see "5.3 I Calibrating the sensors (if an optional pH Link or Dual Link module is installed)"



3.4 I Installing the pH minus injection and suction pipes



• When handling chemical products, always use appropriate safety equipment (safety glasses, gloves and jacket).



The peristaltic pump rotates in the clockwise direction. The acid (pH minus) is therefore sucked into the left side of the pump and injected into the tank from the right side. The pump flow direction can be identified on the pH Link or Dual Link module by looking at the two arrows provided.



3.4.1 Installing the pH minus injection line

- Remove the protection cover from the peristaltic pump, see illustration ①.
- Cut a suitable length of pipe from the coil supplied to connect the peristaltic pump to the injection check valve located on the POD Kit.
- Unscrew the connector cap and attach the pipe to the connector on the outlet from the peristaltic pump, see illustration 2.
- Attach the other end of the pipe to the injection check valve on the POD Kit, see illustration 3.



3.4.2 Installing the pH minus suction pipe

- Cut a suitable length of pipe from the coil supplied to connect the container of pH minus to the peristaltic pump.
- Unscrew the connection cap and attach the pipe to the connector on the inlet to the peristaltic pump, **see** illustration **①**. Screw the connection cap.
- Place the protection cover from the peristaltic pump.
- Drill two holes in the cap on the pH minus container, see illustration **2**:
 - One hole to match the diameter of the pipe used to suck the product up.
 - A second smaller hole to stop the container from deforming if a vacuum is created.
- Pass the free end of the pipe through the hole drilled into the cap and put the ceramic counterweight and threaded locking nozzle on the end, see illustration ③.
- Ensure that ALL connections are correct and watertight before operating the appliance.







Do not place the pH minus container directly under the electrical appliances in the technical premises to prevent any risk of corrosion due to potential acid vapours.

4 Pool preparation

4.1 I Water balance

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The water used must originate from a supply network compliant with Directive 98/83/EC on the quality of water intended for human consumption. To achieve optimum water treatment, be sure to measure and adjust the values in line with the following recommendations:

4.1.1 Seasonal «restart» analysis

- **Stabiliser (cyanuric acid) (<30 mg/L, ppm):** the stabiliser protects the chlorine against the destructive action of U.V light from the sun. Excessive stabiliser levels may block chlorine's disinfecting action and cause the water to go bad.
- Metals (Cu, Fe, Mn) (± 0 mg/L, ppm): metals affect the metal parts of the pool (corrosion phenomena) or may cause indelible stains.

4.1.2 Monthly analysis

- **TH (10-30°f) or (100 300 mg/L CaCO₃, ppm) :** TH measures the hardness of the water (amount of calcium). This value may vary significantly depending on location.
- TAC (8-15°f) or (80 -150 mg/L CaCO₃, ppm) : TAC measures the total alkalinity of the water. This value is used to stabilize the pH. It is important to adjust TAC before pH.

4.1.3 Weekly analysis

- **pH (7.0 - 7.4):** the pH level measures the acidity or basicity of the water. A pH level between 7.0 and 7.4 will preserve the pool equipment and ensure effective disinfection. **Below is the Taylor's watergram method to adjust the pH value:**



Taylor's watergram

- Free chlorine (0.5 - 2 mg/L or ppm): this amount of free chlorine ensures that the water is disinfected and disinfecting.



Contact your dealer to determine the type of corrective product or automatic regulating device to use to adjust the values.

• 4.2 I Adding salt

Every device operates with a recommended minimum salt ratio, see "1.2.1 Chlorinator".

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In order for the chlorinator appliance to operate properly, and to protect the equipment, we recommend using salt (sodium chloride) as per standard EN 16401.

4.2.1 Determining the amount of salt to use on installing the appliance

Example:

- An appliance that works with **4 grammes of salt per litre of water.**
- A 50m³ pool.

The formula:

50m³ x 4 grammes of salt = **200 kg of salt to add to the water.**

4.2.2 Regular analyses

Check the salt level every three months to readjust the missing quantity of salt if necessary.

==> Method for adding salt to water

- Start the filter pump to circulate the pool water.
- If the salt chlorinator is already installed, power it down.
- Poor the necessary amount of salt into the water while moving around the pool. To facilitate dissolution, poor it in stages. It is easier to add the missing amount of salt than to dilute it if there is too much.
- Run the filter pump for 24 hours.
- After 24 hours, check that the salt ratio in the pool is correct, i.e. at 4 grammes per litre of water (in the above mentioned example).
- If the salt ratio is correct and the appliance is already installed, switch it on then adjust its chlorine production to the desired level, see **5.4.2 Adjusting the chlorine production.**

Do not add the salt directly to the skimmer.

The appliance must only be started up once the salt has completely dissolved in the pool.

5.1 | User interface

5 Use



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Before starting the appliance's chlorination function, make sure that all of the salt added to the pool has dissolved fully.

Blue indicator on: Water conductivity too low (lack of salt, water too cold, worn cell, etc.)

Activate/Disable Low mode manually : Reduction in chlorine production from 0% to 30% in 10% intervals (adjustable from the dedicated MENU). "LOW MODE ON" message displayed.

User menu Setting parameters.

Arrows

Browse a menu

four seconds).

- Increase or reduce a setting value - Lock/Unlock the user interface (Simultaneously press both buttons for
- * The interface graphics may vary according to model

5.2 | Settings required prior to use Ø

5.2.1 Starting the appliance

- Press 🕐 to switch the appliance on.
- On start-up, the following appliance information is displayed:

S / N DEVICE XX хххх XXXX XXX XXXX

buttons.

5.2.2 Setting the language

• The first time the system is started, the list of languages is displayed. Simply select the language required DК with the buttons

Confirm the selection by pressing

- To modify the language later, press MENU and scroll using the
- Confirm the selection by pressing ПΚ

MENU ER PUMP L т UX/ LIGHTS MMING R 0 G R A P E UP H S Т 0 ET U P R VER MODE w/ C 0 0 MODE NG TIME R E F RSI HELP ME NU ANGUAG E L

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-	E	N	G	L	L	S	н								
-	F	R	A	N	С	A	Ŭ.	s							
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	P	0	R	т	U	G	U	E	s						
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	м	A	G	Y	Α	R									
-	s	٧	E	N	s	к	A								
-	s	L	0	v	E	N	s	K	Y						



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Blue indicator on or blinking: See information or action to perform onscreen.

On (press and release) / Off (press and hold) /Standby (press and release)

Activate BOOST mode :

Chlorine production at 100% for a cumulative 24 hours. "BOOST ON" message displayed on the screen with the time remaining.

Button □K :

- Confirm the highlighted selection
- Clear an error message that requires -
- operator action (press for four seconds)

A Enable the Wi-Fi Direct mode to connect to the iAquaLink[™] application (depending on model)

(Press both buttons simultaneously for four seconds).

The 🛜 indicator lights.

5.2.3 Setting the time

Setting the time is essential for programming the filtration time using "TIMERS" and the chlorination time using "SWC". The time is set the first time the appliance is used. Follow the indications below if you need to make any modifications to the time displayed:

- To change the time, press MENU and scroll using the State buttons.
- Confirm the selection by pressing



5.2.4 Selecting the filter pump

The filter pump can be directly connected to and managed by the device.

- To do this, the filter pump must first be electrically connected, see "2.5.2 Identifying the functions to connect".
- To select the presence of the filter pump, press MENU. Browse the menu using the substitutions.

Press 🗆 to confirm.

• Select a filter pump and confirm that it is connected:



• Continue the setup sequence by programming the filtration time using "TIMERS", see **"5.2.5 Programming** the filtration time using **"TIMERS"**.

5.2.5 Programming the filtration time using "TIMERS"

The timers are used to define the length of time for the filter pump to operate, and the length of time for the Salt Water Chlorinator (SWC) to produce chlorine. This offers the user the advantage of running their variable speed pump longer at lower flow rates, without having the chlorinator producing the whole time.

In order to complete the timer program, it is necessary to enter and validate both ON and OFF times. If no timer is set, the filtration and / or chlorination will run continuously.

The filtration operating times must be sufficient to correctly treat the water.



Programming examples

Filtration time (TIMER) in pool season for a water temperature at 26°
 => 26/2 = 13 hours of filtration per day
 Filtration time (SWC) outside pool season (wintering active) for a water temperature at 16°
 => 16/2 = 8 hours of filtration per day

==> Single-speed filter pump

- Two operating periods can be programmed, TIMER 1 and TIMER 2.
- Select the **TIMER** to program using the **A V** buttons. Press **D K** to confirm.
- Set the time when the filter pump starts "ON" and the time when the filter pump stops "OFF" using the

buttons. Press 🗗 to confirm.

			PU	Μ	Ρ		TI	ME	R				P	U	MP		Т	L	Μ	E	R		
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-	P	U	MP		т	Т	ME	R	2		- P	U	M	P	1	0	F	F	0	():	0	0

- Press MENU to exit.
- When filtering times are programmed, a letter "P" is displayed on-screen:



Manual activation of the device (pressing) takes priority over the timer. If no filter pump is connected, the device will only start chlorination.

If a single speed filter pump has been connected the filter pump will start along with chlorination.

If a variable speed pump filter pump has been connected the filtration pump will run along with the chlorination at its set RPM 1 speed. All programs will still be valid and will resume normal operation the next cycle.

==> Zodiac® Variable-speed filter pump (in accordance to the model)

- It is possible to program filtering times using the "TIMERS" function for each speed available.
- Select a speed using the 📣 🖤 buttons. Press 💵 to confirm.
- Set the time when the filter pump starts "ON" and the time when the filter pump stops "OFF" using the
 buttons. Press
 to confirm.

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Programming examples (when running at lower speeds)

- Filtering time (TIMER) during the peak pool season = 12 to 14 hours a day
- Chlorination time (SWC) during the peak pool season = 8 to 10 hours a day
- Filtering time (TIMER) outside of the peak pool season (active wintering) = 3 to 4 hours a day
- Chlorination time (SWC) outside of the peak pool season (active wintering) = 2 to 3 hours a day
- Press MENU to exit.
- When filtering times are programmed, a letter "P" is displayed on-screen:



• Variable speed filtration timers 1 and 2 are linked to the SWC programs, see "5.2.6 Programming the chlorination time using "SWC"".

5.2.6 Programming the chlorination time using "SWC"

If a filtration program has been set, the chlorination program will be identical to the filtration program(s) by default. They can be changed, however the chlorination program(s) cannot be activated outside of the filtration Program(s) for safety reasons.





The chlorination time must be equal or shorter than the filtration time.

The device will not accept a chlorination timer longer than or outside the programmed filtration time.

- Press MENU to exit.
- When the <u>chlorination times</u> have been programmed and confirmed, a letter **"T"** is displayed on-screen:



 When the <u>chlorination and filtering times</u> have been programmed and confirmed, a letter "P" is displayed on-screen:



5.2.7 Selecting an outside device

The chlorinator is capable of controlling two devices in addition to the filter pump. It can for example control monochrome or multicolour Zodiac[®] lights. In all cases, the equipment must be connected to the chlorinator using the appropriate auxiliary line:

- AUX 2 = for equipment supplied with low voltage supply (12/24 V)
- AUX 1 = for equipment supplied with high voltage supply (230 V) (in depending to the model)



• Unlike the filtration pump, the appliance does not provide the electricity supply to these two items of external equipment (AUX1 and AUX2). You must ensure that these appliances are connected correctly according to current legislation.

- Press MENU and browse the menu using the buttons. MENU FILTER PUMP AUX/LIGHTS ME NU AUX/LIGHTS ASSIGN LIGHTS P R O G R A M M I N G AUX 2 РН SETUP AUX 2/LIGHT AUX ORP SETUP 1 AUX 1/LIGHT LOW/COVER MODE SLAVE MODE REVERSI NG TIME HELP MENU - L ANGUAGE
- Possible piloting of 2 auxiliaries with the option of setting one as lighting :



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==> Zodiac[®] multicolour lighting

- Press MENU and browse the menu using the A V buttons.
- Select a function or a colour and press \square K to confirm.



• Press **MENU** to exit.

For multicolour lighting of another brand, only the «ON/OFF» management is possible.

5.2.8 Clearing programming settings

- Press MENU and browse the menu using the buttons.
- Press **DK** to confirm.
- Program settings will be reset to 00:00.



5.2.9 Using with a filtration unit

With this configuration, it is the filtration unit which powers the appliance on or off.



- To be controlled by a filtration unit, the appliance's programming must be reset, see «5.2.8 Clearing programming settings».
- After the connection to the filtration unit is made, turn the device off then back on again.

5.2.10 Slave mode

«Slave» mode relinquishes control of the chlorination function to an external controller. The external controller must be

connected to the **SLAVE**

connection point in the low voltage raceway, see «2.5 I Electric connections».

«Boost» and **«Low»** modes will remain operational from the device. However, SWC programs will be deactivated. Chlorination output will be maintained at 100%.

Connect the external controller at the slave connection point in the ow voltage raceway, see «2.5 I Electric connections».



• Press MENU to exit.

«Slave» mode only controls the chlorination. Filtration pump, AUX, lights and other functions are still valid. Pressing will take priority over **«Slave**» mode.

If a Dual Link module is installed, the ORP function is overridden by the **«Slave**» mode. The pH regulation is still valid.

«LOW» / «COVER» / «BOOST» modes takes priority over «Slave» mode.



The slave mode operates in «closed contact = chlorination ON / open contact = PFF chlorination» no.

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5.2.11 Setting the duration of polarity reversal

The principle of polarity reversal is to eliminate the scaling that builds up on the electrodes by reversing the electrical current for a set length of time. By default, the cycle reverses **every five hours.**

Depending on location, water will be more or less hard (water hardness = TH). To preserve the electrodes from scaling (which reduces the effectiveness of the electrolysis reaction), the polarity reversal time can be changed.

• Before setting the polarity reversal time, analyse the hardness of the pool's water (TH), see «4.1 I Water balance».

Water hardness (TH)	Duration of the reversal interval (hours)
< 15°f (150 mg/ L or ppm)	6 - 8
15 - 30°f (150 - 300 mg/ L or ppm)	5
30 - 40°f (300 - 400 mg/ L or ppm)	3 - 4
> 40°f (400 mg/ L or ppm)	2 - 3

- Press MENU and browse the menu using the 🐟 👽 buttons. Press 🖙 to confirm.
- Choose the polarity reversal duration (setting possible every 2 to 8 hours) using the buttons.
 Press to confirm.



• Press MENU to exit.



During reversal, chlorination is stopped for a few minutes. No message is displayed on the screen. Normal operation will resume after the reversal.

5.3 I Calibrating the sensors (if an optional pH Link or Dual Link module is installed)

5.3.1 Calibrating the pH sensor (blue)

The pH sensor may be calibrated in 1 point calibration or 2 points (pH 4 and pH 7); **2 point calibration is recommended for more accurate measurement.**

Current setpoints are displayed on the Home screen whenever the device is ON.



- Turn on the device.
- Turn off the pool pump and close valves as necessary to isolate the cell and sensors.
- Press MENU and browse the menu using the 🐟 💉 buttons. Press 🖙 to confirm.
- Select 1 or 2 point calibration (2 point calibration is recommended):



- Unscrew the pH sensor from the POD.
- Rinse the end of the sensor with tap water.
- Shake off excess water. Do not touch the glass bulb at the end of the pH sensor.
- Place the pH sensor in the pH 7 solution and follow the steps on the display:



- Rinse the end of the sensor with tap water.
- Shake off excess water. Do not touch the glass bulb at the end of the pH sensor.
- Place the pH sensor in the pH 4 solution and follow the steps on the display:



- Once calibration is complete, replace the sensor on the POD.
- If calibration is unsuccessful, see «7.1 I Appliance behaviour».

1 point calibration : possible if the pH 7 and pH 4 solutions provided are not available.
 For this:

 Use a sample of water for which you know the pH value.
 C H O O S E T H E p H OF C A L I B R A T I O N
 Activate the 1 point calibration and fill in this pH value on the screen:
 7.0 >

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Establishing the pH setpoint determines when acid will be added to the system to decrease the pH of the water. **Default pH setting is 7.2. To find out the value of the setpoint to be set, refer to Taylor's watergram, see «4.1.3 Weekly analysis».**

 Press MENU and browse the menu using the A buttons. Press to confirm. • Select the desired setpoint value (from 6.8 to 7.6 is possible): MENU FILTER PUMP AUX/LIGHTS P R O G R A M M I N G SETUP MENU p H SETPOINT p H - PH SETUP p H SETPOINT 7. 2 ORP SETUP RECOMMENDED p H CALI BRATION LOW/COVER MODE ACID PUMP 7.0-7.4 TEST DOSAGE SLAVE MODE REVERSING TIME HELP MENU LANGUAGE



5.3.3 Calibrating the ORP sensor



The ORP sensor may be calibrated in 1 point (ORP 470 mV); Current setpoint is displayed on the Home screen whenever the device is ON.

- Turn on power to the device.
- Turn off the pool pump and close valves as necessary to isolate the cell and sensors.



- Unscrew the ORP sensor from the POD.
- Rinse the end of the sensor with tap water.
- Shake off excess water. Do not touch the the end of the ORP sensor.
- Place the ORP sensor in the ORP 470 mV solution for one minute and follow the steps on the display:



- Once calibration is complete, replace the sensor on the POD.
- Press MENU to exit.
- If calibration is unsuccessful, see "7.1 | Appliance behaviour".

5.3.4 Setting the ORP setpoint

Establishing the ORP setpoint determines when chlorine is produced by the appliance. Free chlorine level should be checked every few days after initial installation. **Default ORP setting is 700 mV.**

The setpoint value depends on the pool environment, its use, the rate of stabiliser present in the pool and so on.

- Press MENU and browse the menu using the 🔥 💉 buttons. Press 🖙 to confirm.
- Select the desired setpoint value (from 600 mV to 900 mV is possible) using the 📣 👽 buttons.



5.3.5 pH pump activation

To avoid any exposure to acid during use, the dosing pump is deactivated for the first 8 hours the appliance operates. During these first 8 hours, the pH value measured and displayed is «- - - -».

- Hydrochloric acid is a hazardous chemical that may cause burns, lesions, and irritations. Handle with extreme care using protective equipment (gloves, goggles, coveralls). Refer to the substance SDS sheet for more information.
- Always pour acid into water.
- Once cleaning is complete, dispose of the solution according to standard in effect in the country of use.
- The pH pump may be activated manually during this 8-hour period, press MENU and browse the menu





5.3.6 Pausing of the pH Dosing Pump

To prevent acid injection when it is not required: It is possible to stop the pH dosing pump for 8 hours.



5.3.7 Test the pH Dosing Pump

The pH dosing pump can be directly activated directly in order to perform a five-minute operating test.



- The acid pump will perform a five-minute operating test.
- Pump stops automatically upon completion of the five-minute test.
- Press **MENU** to exit.

● 5.4 I Regular use

5.4.1 Adjusting chlorine production

From factory, the chlorination is set at 50 %. It can be set between 0 and 100 % in 10 % increments from the "main

```
screen" by pressing
```

. The set value is valid until the next modification.



The term «standard» chlorination is used when the chlorine production is managed manually (no «Boost» mode or «Low» mode activated and with no ORP regulation connected)

5.4.2 "Boost" mode

In some cases, the pool may require a higher than normal chlorination level such as in cases of high use, poor weather or at the start of the season. **«Boost»** mode is used to increase the chlorine level quickly.

«Boost» mode lasts for 24 cumulative hours at a production rate of 100%. If the program is set to perform chlorination 12 hours per day, **«Boost»** mode will be active for 12 hours on the first day and 12 hours on the second day.

If the filter pump is connected to the device, the filter pump will operate in **«Boost»** mode also. The chlorination and filtration timers are temporarily ignored for the duration of the **«Boost»** mode.

Once **«Boost»** mode completes, the device and filter pump will resume programmed operations.



If the device is equipped with a Dual Link module, the **«Boost»** mode will not take the ORP value into account. The **«Boost»** mode takes priority over the ORP regulation

Press

 If the device is in «Low»/«Cover» mode you will need to confirm that you want «Boost» mode to override «Cover» or «Low» mode settings.

5.4.3 "Low" mode

«Low» mode is designed to reduce chlorine production in situations where the pool is covered or when pool use is limited. Chlorine production needs will be lower when pool use is low and/or when pool water is not exposed to UV rays etc.

Production in **«Low»** mode may be set in the main menu parameters from **«Low/Cover»** mode. **«Low/Cover»** mode may be set from 0 % to 30 % in 10 % intervals. The programs remain active while the appliance is in **«Low/Cover»** mode.

- To manually enter «Low» mode press
- To exit **«Low»** mode press **LEW** again.



5.4.4 "Cover" mode

If the pool is equipped with a compatible electric roller cover (contact closed = shutter closed), this can be connected to the device in order to automatically reduce chlorination upon closing the cover, this is known as **«Cover»** mode. Chlorination will resume at the level determined by the programming upon opening the compatible electric cover.

Production in **«Shutter»** mode may be set in the main menu parameters from **«Low/Shutter»** mode. **«Low/Shutter»** mode may be set from 0 % to 30 % in 10 % intervals. The programs remain active while the appliance is in **«Low/Shutter»** mode.

Check that the cover is compatible and connected to the chlorinator : raceway, see **«2.5 I Electric connections».**



connection point in the low voltage

«Cover» mode will automatically be activated when the cover is closed. The **«Cover»** mode message and the output percentage are displayed on the screen.



«Cover» mode will stop as soon as the cover is completely open.

If the device is equipped with a Dual Link module we do not recommend connecting the **«Cover»** mode. More specifically, chlorination is managed via the Dual Link module. In cases where the **«Cover»** mode is connected in the presence of a Dual Link module: chlorination will take place upon closing the roller cover, even if the ORP measurement is greater than the setpoint value.

5.4.5 "Cold water" failsafe mode (in depending to the model)

In addition to displaying the water temperature, the temperature sensor is used to protect the cell, which is sensitive to cold water (reduction in conductivity between the plates and so increase in voltage).

The temperature displayed on the top left of the home screen will begin to flash at 15°C.

15°23:04 ON

When the water temperature is under or equal to 15°C, chlorine production automatically switches to the level defined in **«Low»/«Cover»**mode (between 0 and 30%).

When the water temperature is under or equal to 10°C, chlorine production is stopped. The absence of chlorination at this temperature is not an issue, as bacterial development is slowed in cold water.

In addition to the flashing temperature, a "LOW TEMPERATURE" message is alternately displayed.

When the temperature goes over 10°C again, the output percentage will be set to «Low»/»Cover».

When the temperature goes over 15°C again, chlorination resumes its level of operation configured using programs.

5.4.6 Locking the interface

The device can be locked, thus deactivating the buttons on the user interface panel. Simultaneously press and hold the and velocity buttons for 3 seconds. This function can be accessed from any screen/menu.

Locking the device automatically returns the user to the home screen. To unlock the device, press and hold the solutions for another 3 seconds.





6.1 I Cleaning the sensor(s)

Sensor(s) must be cleaned every 2 months.

- Turn off the filter pump.
- Close all valves.
- Remove the sensor and the sensor holder from the POD.
- Rinse the sensor with tap water for 1 minute.
- Shake off excess water.

To avoid damaging the active part, do not rub or dry with a cloth.

• Brush the junctions and the metal part (Gold) for the ORP sensor using a toothbrush for 1 minute.



- Prepare a diluted hydrochloric acid solution by pouring 1 mL (10 drops) of commercially-available hydrochloric acid (HCI 37%) into 50 mL of tap water (1/2 glass of water).
 - Hydrochloric acid is a hazardous chemical that may cause burns, lesions, and irritations. Handle with extreme care using protective equipment (gloves, goggles, coveralls). Refer to the substance SDS sheet for more information.
 - Always pour acid into water.
 - Once cleaning is complete, dispose of the solution according to standard in effect in the country of use.
- Wash the sensor in the diluted hydrochloric acid solution for 2 minutes.
- Rinse sensor in clean tap water for 1 minute.
- Shake off excess water.
- Then calibrate the sensor, see **«5.3 I Calibrating the sensors (if an optional pH Link or Dual Link module is installed)**».
- Put the sensor holder and the sensor in place on the POD Kit.

6.2 I Checking and cleaning the electrodes



The appliance is equipped with a smart polarity reversal system designed to prevent the electrode plates from scaling. The duration of the polarity reversal can be changed, see **"5.2.11 Setting the duration of polarity reversal"**. However cleaning may be required in regions where the water is very hard.

• Turn off the chlorinator and the filtering, close the isolation valves, remove the protection cover and disconnect the cell power cable.

==> eXO[®] (iQ) cell :

• Unscrew the tightening ring and remove the cell, **see illustration** ①. The ring is crenelated thus allowing a lever to be used in the event of it jamming. Immerse the part which contains the electrode plates in a suitable container with the cleaning solution.

==> GenSalt OT cell :

• Place the cell backwards and fill it with a cleaning solution so that the electrode plates are immersed.



- Leave the cleaning solution to dissolve the scaling 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 put it back on the cell fixture collar (there is an alignment foolproofer).
- Refit the tightening ring, reconnect the cell cable and refit the protective cover.
- Open the isolation valves, then restart the filtering and chlorinator.



If you do not use an off the shelf cleaning solution, you can make your own by carefully mixing one part of hydrochloric acid in nine volumes of water (Caution: always pour the acid into the water and not the opposite and wear suitable protective equipment!).

6.3 I Washing the pool filter (backwash) (in accordance to the model)

Backwash mode is used to quickly start/stop the filter pump (single- or variable-speed pump) in order to backwash the filter.

• Press **MENU** and browse the menu using the buttons. Press to confirm. DК Select O N to activate filtration or O F F to stop filtration. QUI CK CLEAN FILTRATION PUMP MENU FI LTER PUMP -->0 N FI LT ER PUMP С C E A N QUI K E. -----→O F F AUX/ LIGHTS SINGLE P EED S PROGRAMMING ZODIAC V S SETUP PH SETUP ORP MODE LOW/COVER MODE SLAVE NG TIME REVERSI HELP ME NU

For safety reasons, the chlorination is stopped during the backwash mode. To avoid emptying the pool, the backwash mode automatically stops after 5 minutes. The variable speed pump RPM is by default set at 3450 rpm (max speed). This can be changed in the priming menu.

• 6.4 I Winterizing

LANGUAGE

The chlorinator is equipped with a protection system that limits chlorine production under adverse operating conditions like cold water (in winter) or when there is too little salt.

- Active wintering = filtering operational in winter: below 10 °C it is preferable to switch off the chlorinator. Above this temperature you can leave it running.
- **Passive wintering** = lower water level and drained piping: switch off the appliance and leave the electrode dry in its cell with its isolation valves, if any, open.
- Sensor wintering = Keep the sensor's plastic tube (which contains a storage solution) to re-use it during wintering. The sensors must always be stored damp (never dried out). They must be stored in the tube filled with a 3 mol/L KCl storage solution or at least in tap water.

6.5 I Returning the pool to service

Required actions:

- Adjust the water level (too much or too little).
- Check the water parameters : TAC/TH/pH/Salinity/Chlorine/Stabiliser/Copper/Metals, and adjust the parameters to obtain a balanced, healthy pool, see «4.1 I Water balance».
- Check the condition of the equipment (pump, filter, chlorinator, electrolysis cell).
- Check the sensors, clean if needed and re-calibrate.
- Once the salt level has reached the required level of 4000ppm and is completely dissolved in the water, restart the salt chlorinator.

Q 7 Troubleshooting

- Before you contact your retailer, please carry out these few simple checks using the following tables if a problem occurs.
- If the problem continues, contact your retailer.
- E: Actions to be performed by a qualified technician only



7.1 | Appliance behaviour

The information messages may be hidden by pressing for 4 seconds. Certain messages require human intervention and cannot be hidden.

7.1.1 Appliance WITHOUT with pH Link or Dual Link module

Message	Possible Cause	Solution
«NO FLOW» «CHECK PUMP» ("INFO" indicator lit during the production timers)	 Filter pump failure. Filter and/or the skimmer(s) are dirty. By-pass valve(s) closed. Flow switch disconnected or defective. 	 Check the pump, the filter, the skimmer(s), and the by-pass valve(s). Clean them if necessary. Check the wire connections (flow switch). Check that the flow switch is working correctly (replace it if necessary: contact the retailer)
«CHECK OUTPUT» (" INFO " indicator flashing)	 Cell power cord disconnected or not properly connected to the cell or inside the device. Wear, calcification or breakage of the cell plates. Internal electronic problem in the control box following an external electric incident. 	 Switch off the chlorinator (button) and switch off the power supply to the control box, then check that all the wires are properly connected (mains power supply, cell, etc.). Replace the cell. Check the supply board: contact the reseller contact the rese
«LOW CONDUCTIVITY» ("SALTS" indicator lit)	 For models with a temp sensor, this error may be caused by low water conductivity (lack of salt). If there is no temperature sensor: this error may be due to a low water temperature or a low salt rate. Lack of salt due to water loss or dilution (filter backwash, water renewal, rain, leaks, etc.). Can vary depending on the temperature and age of the cell. The voltage across the cell terminals varies in time. Wear, calcification or breakage of the cell. 	 Check water temperature. Check the condition of the cell plates. Measure the salt concentration in the pool water using a salt tester or a test strip, then add salt to the pool to keep the level at 4 g/L or 2 g/L depending on the model. If you do not know the salt level or how to test it, contact your retailer.
«OVERHEAT» ("INFO" indicator lit)	• The temperature inside the control box is too high, chlorination is slowed (>85°C) then stopped (> 90°C) if the temperature does not fall back down in order to protect the electric circuits.	 If the box is installed outdoors, protect it from direct sunlight. Chlorination will automatically resume once the temperature has fallen back down. Issue at the device.
«LOW WATER TEMP» ("INFO" indicator light is lit, the temperature on the display flashes)	• The water temperature measured by the chlorinator temperature sensor is less or equal to 10°C; production stops in order to protect the cell.	 Chlorination will automatically resume at the Low Mode chlorination rate between 10 and 15°C. Chlorination will automatically resume at the normal chlorination rate above 15°C.
(NONE MESSAGE) Chlorine production not visible at the cell plates	 Chlorination is in a reversing period. Chlorination is set at less than 100% and is paused. 	• Wait and observe, chlorination should resume in the next 10 minutes.

7.1.2 Appliance WITH with pH Link or Dual Link module

Message	Possible Cause	Solution
«LOW pH» ("INFO" indicator lit)	 The pH level is less than 5. The pH sensor is disconnected, dirty, uncalibrated or not working. Alkalinity is low, the pH minus 	 Check the pH sensor wiring on the control box and on the sensor holder. Check the operation of the sensor using a sensor tester (contact the retailer) . Clean and calibrate the sensor. Check and adjust alkalinity. Replace the sensor.
«pH DOSING STOP» ("INFO" indicator flashing)	 The pH setpoint has not been reached after 5 cumulative hours of injection. The pH sensor is disconnected, dirty, uncalibrated or not working. The pH minus container is empty. The peristaltic pump is not primed. High alkalinity, acid injection does not help to lower the pH. 	 Check the pH level in the pool using photometer or a test strip. Check the pH sensor wiring on the control box and on the sensor holder. Check the operation of the sensor using a sensor tester (contact the retailer) Clean and calibrate the sensor. Replace the pH container. Test the peristaltic pump (contact the retailer) Lower the alkalinity (contact the retailer) Replace the pH sensor.
«ORP PROD. STOP» ("INFO" indicator flashing)	 The ORP setpoint has not been reached after 36 cumulative hours of chlorination. The ORP sensor is disconnected, dirty, uncalibrated or not working. When cyanuric acid concentration is too high the efficacy of chlorine is highly reduced. When cyanuric acid concentration is too high it lowers the ORP reading from the sensor. pH is too high. When the total chlorine concentration is too high, chloramines will lower the ORP reading of the sensor. The device is not correctly sized for the pool. When the cell is worn, calcified or out of order the electrolysis reaction is not efficient. 	 Check the chlorine level in the pool using photometer or a test strip. Check the ORP sensor wiring on the control box and on the sensor holder. Check the operation of the sensor using a sensor tester (contact the retailer) Clean and calibrate the sensor. Drain the pool using the main drain in order to lower the cyanuric acid concentration. Proceed to a shock chlorination (using calcium hypochlorite) to reduce the chloramines concentration. Check the cell conditions. Replace the ORP sensor.



Tip: if you require assistance, inform your retailer about the appliance's condition to save time

• 7.2 | Effects of the stabiliser on the chlorine and the ORP

A pool has a stabiliser content of 30 ppm and a pH of 7.4.

<u>1 ppm free chlorine = 700 mV</u>

Therefore, the user can set their chlorination requirement to 700 mV to maintain a level of 1 ppm in the pool. If the level of stabiliser increases to 90 ppm, the ORP reading will be false.

<u>1 ppm free chlorine = 500 mV</u>

If the user keeps his setpoint at 700 mV, he will end up chlorinating up to 5 ppm !



* Theoretical values to explain the principle. Actual values may vary slightly depending on various pools waters

7.3 I "Help" menu

The chlorinator will automatically notify you of any problems by displaying information messages. To help with the understanding

of these messages, the device has a troubleshooting assistance menu which gives the meanings and the action to take to solve the problem.

- Press MENU and browse the menu using the 📣 👽 buttons. Press 🗔 to confirm.
- Select the error message using the

```
MENU
FILTER
         PUMP
AUX/LIGHTS
 ROGRAMMI NG
P
 н
    S
     ETUP
0
 RP
     SETUP
 OW/COVER
             MODE
L
 LAVE
        MODE
             TIME
 EVERSING
R
       ME NU
 ELP
L
 ANGUAGE
```

- The display will automatically scroll through a certain number of suggested solutions to explain what to do. Once automatic scrolling is complete, the chlorinator automatically returns to the "Troubleshooting" menu.
- Press **MENU** to exit.



Pour plus d'informations, enregistrement produit et support client : For more information, product registration and customer support:





