Label on the device:

Label on the Electrolytic cell / Replacement cell

MOOV – JUST SALT REPLACEMENT CELL MODEL # RC30

Replacement electrode for Salt chlorinator JUST SALT

CHLORINE GENERATOR

CONTROLS BACTERIA AND ALGAE FOR:
Swimming Pools and Spas

DOMESTIC

A maximum of 160,000 L of water can be treated with one unit of JUST SALT
Maximal production of hypochlorous acid equal to 572 g of free available chlorine per day
For pools, a level of 1 to 3 ppm of free available chlorine must be maintained.
[AND/OR]
For Spas, a level of 3 to 5 ppm of free available chlorine must be maintained.

READ THE LABEL AND INSTRUCTION MANUAL BEFORE USING
 KEEP OUT OF REACH OF CHILDREN

 REGISTRATION NO. 34665 PEST CONTROL PRODUCTS ACT

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. lt is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

Do not use this device with bromide products

Moov Sales Agency Inc.
 6330 Zephirin Paquet Local 1A, Québec, Québec G2C 0M3*450-328-5858*

Instructions for use

Salt chlorinator

CE ♺

TABLE OF CONTENTS	ENGLISH

1. FUNCTIONSOFTHEEQUIPMENT

Model	Chlorine production by electrolysis	pH regulation	Inspection of chlorine production using the ORP probe
UNO	✔		
DUO	✔	✔	
PRO	✔	✔	✔

2. INSTALLATIONDIAGRAM

- **The electrical connections at cell-level must not point upwards, to avoid any deposits of water or humidityon them.**

- **The pH corrector container must be installed a safe distance away from any electrical device or any otherchemicals.**

KEY :
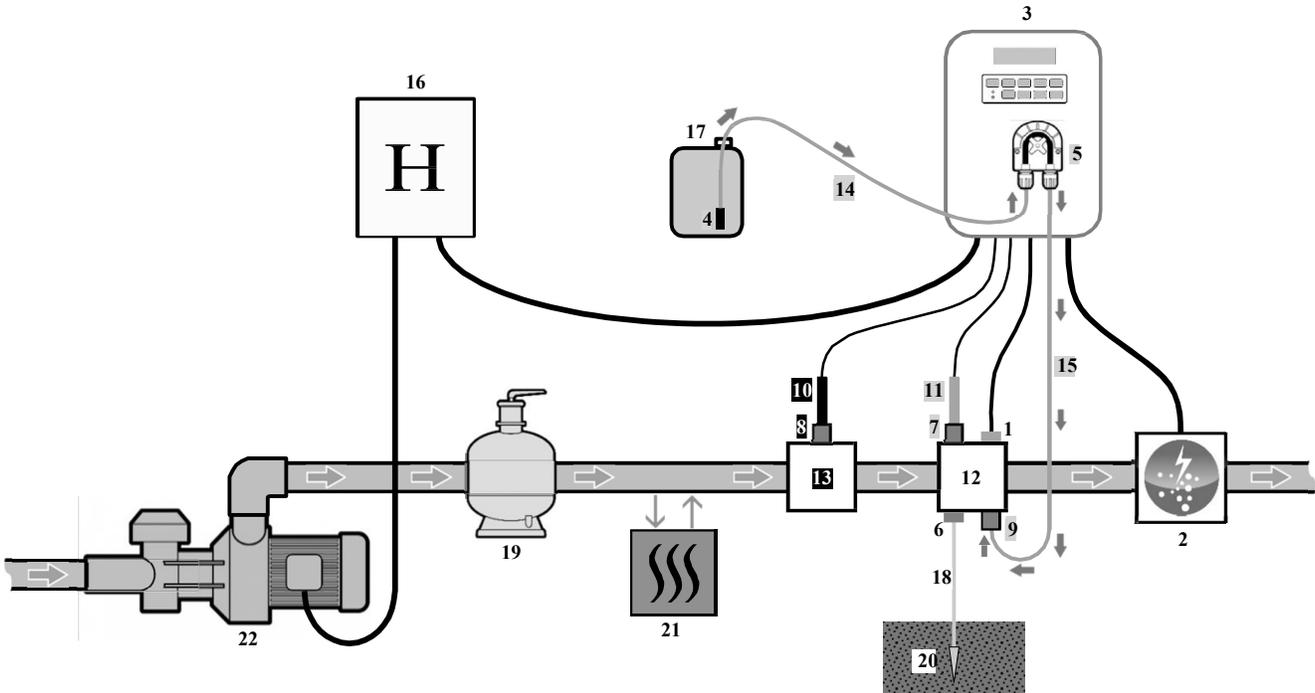
UNO **model** : white.
DUO **model** : white +grey.
PRO **model** : white + grey + black.

1 : Salt / temperature / low water sensor (optional)
2 : Cell
3 : Electronics unit
4 : Filter with ballast
5 : Peristaltic pump
6 : Pool Ground (optional)
7, **8** : Probe holder
9 : Injection connector
   : ORP probe
11 : pH probe
12, **13** : Bracket
14, **15** : Semi-flexible tubing

ELEMENTS NOT SUPPLIED :

16 : Electrical power supply
17 : pH corrector container
18 : Copper cable
19 : Filter
20 : Ground rod
21 : Heat pump
22 : Filtration pump

3. ELECTRONICS UNIT

3.1. First commissioning

When switching on the electronics unit for the first time, carry out the following programming.

Successive menus	Possible settings		Navigation
Langues FRANCAIS	• Français • English • Deutsch • Español • Italiano • Nederlander • Portugués		For each parameter, select a data item with the ↑ ↓ buttons, then confirm with the **OK** button.
Volume 50 m3	From 10 to 200 m³, in increments of 10.		
Date 01/01/01	Day / Month / Year		
Time XX:XX	Hour / Minute		
Display In line	• In line • Dashboard		

3.2. Keypad

COMMAND KEY (depending on model)		FUNCTION
⏻ MENU		• **Switching on the electronics unit.** → A few minutes after switching on, production starts automatically (with or without ORP check). • **Switching off the electronics unit** *(press and hold)*. When switching off, the screen and the green LED turn off while the red LED comes on. • If an alarm has been activated, press first on ↺ to switch off. **Access the menus.**
BOOST T°C		**Boost mode starts for 24 hours.** **Water temperature display for a few seconds** *(only if the default display is set to « In line display »)*. • Direct access to the « Parameters – Temp. Adjust » menu *(press and hold)*.
SALT		• **Salt level display for a few seconds** *(only if the default display is set to « In line display »)*. → Direct access to the « » menu *(press and hold)*. • This command key is only present on the **DUO** and **PRO** models.
pH		**Direct access to the « » menu** *(press and hold)*. **Selecting a value or data element.**
↺		• **Cancellation of an entry** • **Back to previous menu.**
OK	✔	**Stopping Boost mode.** • **Command confirmation.** • **Entering a menu.** **Dismissing an alarm.**

3.3. LEDs

Colour	Status	Meaning
Green	Continuously on	Production in progress
Red	Continuously on	Electronics unit powered off, or wintering mode activated
	Flashing	Alarm activated

3.4. Screen

- **Ifdisplayflashing :** information awaiting confirmation, or alarm activated.
- **Ifdisplaysolid :** confirmed or read-only information.

MODEL	DEFAULT DISPLAY		MEANING	
	Setting via the « » menu	Overview		
UNO	In line display	PROD. XXX %	**Production setpoint** The point just after «PROD » appears when production is running (additional indicator on the green LED).	
	Dashboard	XXX %. XX.X g/L XX.X °C	**Production setpoint** The point just after « » appears when production is running (additional indicator on the green LED).	**Salt levels**
				Water temperature
DUO PRO *(1)*	In line display	PROD. XXX % pH X.X	**Production setpoint** The point just after «PROD » appears when production is running (additional indicator on the green LED).	
			Measuring the pH	
	Dashboard	XXX %. XX.X g/L pH X.X XX.X °C	**Production setpoint** The point just after « » appears when production is running (additional indicator on the green LED).	**Salt levels**
			Measuring the pH	**Water temperature**
PRO *(2)*	In line display	ORP. XXX mV pH X.X	**ORP measurement** The point just after «ORP » appears when production is running (additional indicator on the green LED).	
			Measuring the pH	
	Dashboard	XXX mV. XX.X g/L pH X.X XX.X °C	**ORP measurement** The point just after « » appears when production is running (additional indicator on the green LED).	**Salt levels**
			Measuring the pH	**Water temperature**

(1) : If the chlorinator operating mode is set to "%".

(2) : If the chlorinator operating mode is set to "ORP".

3.5. Menu navigation

KEY :

UNO **model** : white.
DUO **model** : white + grey.
PRO **model** : white + grey + black.

This diagram includes all the options : empty container, Bluetooth, external control, flow, Modbus, salt/temperature.
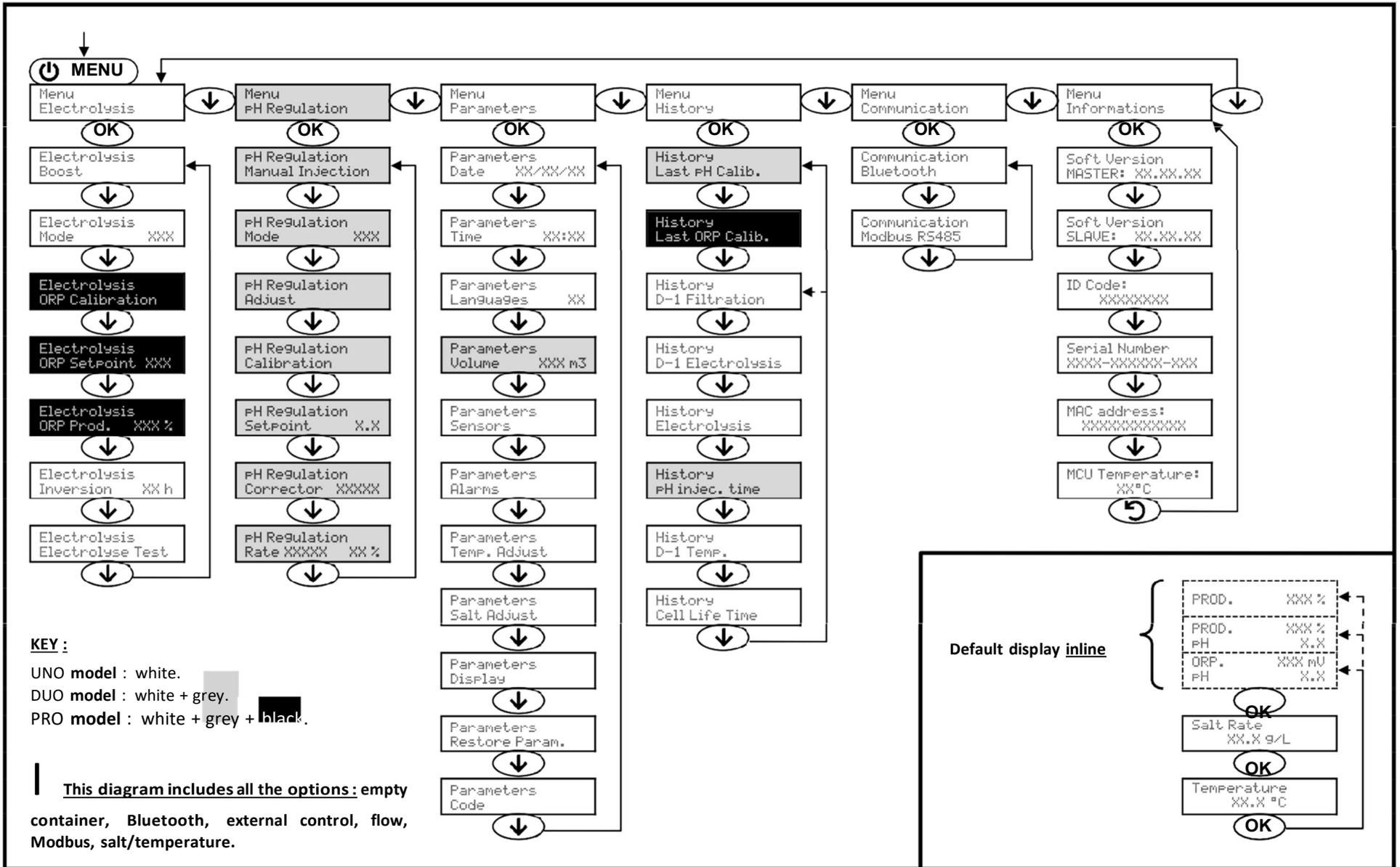
3.6.   Features

3.6.1. Selecting the display language

Menu	Possible settings	Default setting
`Parameters` `Languages    XX`	• Français • English • Deutsch • Español • Italiano • Nederlander • Portugués	Français

3.6.2. Setting the date and time

Menu	Possible settings	Default setting
`Parameters` `Date    XX/XX/XX`	Day / Month / Year	01/01/01
`Parameters` `Time       XX:XX`	Hour / Minute	*random*

3.6.3. Specification of the volume of the pool

Menu	Possible settings	Default setting
`Parameters` `Volume   XXX m3`	From 10 to 200 m^3, in increments of 10.	50 m^3

3.6.4. Specification of the pH corrector type

Menu	Possible settings	Meaning	Default setting
`pH Regulation` `Corrector   XXXX`	Acid	pH-	Acid
	Base	pH+	

3.6.5. Specification of the concentration of the pH corrector

Menu	Possible settings	Default setting
`pH Regulation` `Rate XXXX    XX%`	From 5 to 55 %, in increments of 1.	37 %

3.6.6. Sensor settings

Menu	Sensor	Setting	Possible settings	Default setting
Parameters Sensors	Cover/Ext cmd	Mode	• Cover • OFF • Ext cmd	Cover
		Type	• NO • NC	NO
	Flow/pH Can	Mode	• Flow • OFF • pH Can	OFF
		Type	• NO • NC	NO
	Salt	-	• ON • OFF	ON
	Temperature			

Extcmd : *external command.* pH

Can : *empty container sensor.* ON

: *sensor activated.*

OFF : *sensor disabled.*

NO : *switch normally open.*

NC : *switch normally closed.*

Sensor activated	Configuration	Specific display	Production	pH regulation
Cover	Open cover	-	Maintained	Maintained
	Closed cover	-	Divided by 5*	
External command	Command activated	-	Maintained	
	Command not activated		Stopped	
Flow	Sufficient flow	-	Maintained	
	Zero flow	Alarm Flow	Stopped	Stopped
Empty container	Empty container	Alarm pH Can empty	Maintained	
	Container not empty		Maintained	Maintained
Salt	Salt level less than 2.5 g/L *(or 1.5 g/L if Low Salt equipment)*	Alarm Low Salt	Stopped	
	Salt level equal to or greater than 2.5 g/L *(or 1.5 g/L if Low Salt equipment)*	-	Maintained	Maintained
Temperature	Water temperature below 15°C		Stopped	
	Water temperature equal to or higher than 15°C	-	Maintained	

* Modifiable value on the **PRO** model.

3.6.7. Calibration of the water temperature measurement

→ If the temperature sensor is disabled, the menu below does not appear.

Menu	Possible settings	Default setting
Parameters Temp. Adjust	From - to + 5°C compared to the measurement displayed, in increments of 0.5.	Measurement displayed

3.6.8. Calibration of the salt rate measurement

→ If the salt sensor is disabled, the menu below does not appear.

Menu	Possible settings	Default setting
Parameters Salt Adjust	From 1.5 to 8 g/L, in increments of 0.5.	Measurement displayed

3.6.9. Calibration of the pH measurement

Menu	Possible settings	Default setting
pH Regulation Adjust	From 6.5 to 7.5, in increments of 0.1.	Measurement displayed

3.6.10. Setting the inversion frequency of the current supplying the cell

I **Current inversion aims to prevent scale deposits on the cell. Current inversion must be set following the table below in order to ensure that the cell continues to operate correctly in the long term.**

Water hardness (°f)	0 to 5	5 to 12	12 to 20	20 to 40	40 to 60	> 60
Inversion frequency (h)	16	10	8	6	4	2

Menu	Possible settings	Default setting
Electrolysis Inversion XX h	From 2 to 24 h, in increments of 1.	6 h

3.6.11. Selecting the chlorinator operating mode

Menu	Possible settings (depending on model)	Meaning	Default setting
Electrolysis Mode XXX	%	Continual production, following the production setpoint.	• For **UNO** and **DUO** models : %. • For **PRO** model : ORP.
	ORP	Inspection of production using the ORP probe, according to the ORP setpoint and the ORP production setpoint.	
	OFF	Deactivation of the chlorinator cell.	

→ The choice of operating mode can be seen on the initial display (« PROD » as a %, or « ORP » in mV).

3.6.12. Setting the production setpoint

Chlorinator operating mode	Menu	Specific instructions	Possible settings	Default setting
%	*Default display*	Directly select a value using the ↑ ↓ buttons (no confirmation required).	• From 1 to 100 %, in increments of 1. • 0 % or OFF *(depending on the operating mode of the chlorinator)*.	100 %
ORP	`Electrolysis ORP Prod.   XXX%`	-		

3.6.13. Setting the pH setpoint

Menu	Possible settings	Default setting
`pH Regulation Setpoint`	From 6.8 to 7.6, in increments of 0.1.	7.2

3.6.14. Setting the ORP setpoint

Menu	Possible settings	Default setting
`Electrolysis ORP Setpoint`	From 200 to 900 mV, in increments of 10.	670 mV

3.6.15. Boost mode

Boostmode :
- sets the production setpoint up to 125 %, for a fixed period.
- can be manually stopped at any time.
- can be used when chlorine is urgently needed.

I **Boostmodecannotreplaceaconventional shocktreatment incasesofwaternotfitforbathing.**

- If the Boost mode is restarted manually while it is already running, the Boost mode resets for the duration displayed.
- Boost mode cannot be switched on if an alarm has been triggered. After having resolved and dismissed this alarm, wait a few moments in order to be able to activate the Boost mode.
- When the Boost mode ends or is manually stopped, production continues according to the initial setpoint.
- Boost mode continues after powering off the electronics unit.

Operation withacoversensor :
- Boost mode cannot be switched on with the cover shut.
- If the cover is closed with Boost mode switched on, Boost mode automatically stops.

Menu	Possible settings	Default setting	Switching on	Operation indicator (specific display variants)	Switching off
`Electrolysis Boost`	• 12 h • 24 h	24 h	Automatic as soon as the duration setting is confirmed.	`12 h` `Boo...` `Bo 24 h` `12 h` `Boost` `Boost 24 h`	Press on ↩.

3.6.16. Calibrating the probes : important advance information

→ The original pH probe is already calibrated. It is therefore not necessary to carry out calibration of the pH probe when putting the equipment into service for the first time.

However, itisimperative tocarryoutacalibration ofthepHandORPprobesatthebeginning ofeachseasonwhen returningtoservice, andafter each probe replacement.

3.6.17. Calibrating the pH probe

1) Open the pH 7 and pH 10 calibration solutions (useonlysingle-use calibration solutions).
2) Turn off the filtration (and therefore the electronics unit).
3) *Iftheprobeisalreadyinstalled :*
   a) Remove the probe from the probe holder, without disconnecting it.
   b) Remove the probe holder nut and replace it with the stopper supplied.
   If the probe is not already installed :
   Connect the probe to the electronics unit.
4) Turn on the electronics unit.
5) Go to the « pH Regulation – Calibration » menu.
6) Navigate through the menus following the instructions below :

```
pH Regulation
Calibration
```
(OK)
```
pH Calibration
Solution      7.0
```
→ Insert the probe into the pH 7 calibration solution, thenwaitafewminutes.

(OK)
```
pH Calibration
In Progress
```
→ Donottouchtheprobe.

(Wait a few seconds)
```
pH Calibration
Solution     10.0
```
→ a) Rinse the probe under running water, then leave to drip-dry it withoutwipingit.
   b) Insert the probe into the pH 10 solution, thenwaitafewminutes.

(OK)
```
pH Calibration
In Progress
```
→ Donottouchtheprobe.

(Wait a few seconds)
```
pH Calibration
Success
```
→ a) Rinse the probe under running water, then leave to drip-dry it withoutwipingit.
   b) Install the probe into the probe holder.

or

```
pH Calibration
Failed
```
→ Carry out the navigation again with the above instructions, several times if necessary. If calibration still fails, replace the probe and carry out another calibration.

3.6.18. Calibrating the ORP probe

1) Open the ORP 470 mV calibration solution.

2) Turn off the filtration (and therefore the electronics unit).

3) *Iftheprobeisalreadyinstalled* :

    a) Remove the probe from the probe holder, without disconnecting it.

    b) Remove the probe holder nut and replace it with the stopper supplied.

    If the probe is not already installed :

    Connect the probe to the electronics unit.

4) Turn on the electronics unit.

5) Go to the « Electrolysis – ORP Calibration » menu.

6) Navigate through the menus following the instructions below :

Electrolysis / ORP Calibration	
OK	
ORP Calibration Solution 470 mV	→ Insert the probe into the ORP calibration solution, thenwaitafewminutes. Do
OK	
ORP Calibration In Progress	→ nottouchtheprobe.
(Wait a few seconds)	
ORP Calibration Success	→ a) Rinse the probe under running water, then leave to drip-dry it without wiping it. b) Install the probe into the probe holder.
or	
ORP Calibration Failed	→ Carry out the navigation again with the above instructions, several times if necessary. If calibration still fails, replace the probe and carry out another calibration.

3.6.19. Activation/deactivation of pH regulation

Menu	Possible settings	Default setting
	• ON • OFF	ON

3.6.20. Manual injection

Menu	Functions	Possible settings	Default setting	Instructions
pH Regulation Manual Injection	• Priming of the peristaltic pump and filling of semi- rigid pipes. • pH corrector injection. • Means of checking the correct operation of the peristaltic pump.	From 30 seconds to 10 minutes, in increments of 30 seconds.	1 min	• Tostartinjecting : Confirm the duration setting. *(The peristaltic pump is running, and a timer countdown is displayed in real time.)* • Totakeabreak,andtorestart the injection : Press on **OK**. • Tostoptheinjection : Press on ↩.

3.6.21. Bluetooth communication

Menu	Setting	Function	Possible settings	Default setting
Communication Bluetooth	Mode	Activation/deactivation of Bluetooth communication.	● ON ● OFF	ON
	Pairing	● Detection of connectible devices near the electronics unit (within 60 seconds). ● Networking of the electronics unit and connected devices.	-	
	Reset	Removal of the network connecting the electronics unit to the connected devices.		

→ During an update of the software of the electronics unit carried out using Bluetooth, the 2 LEDs (red and green) flash alternately.

3.6.22. Chlorination test

→ *This function is for use by professionals for maintenance operations on the equipment.*

Menu	Navigation
Electrolysis Electrolyse Test	Electrolysis Electrolyse Test **OK** Electrolyse Test In Progress XXX s → *Real-time timer countdown* *(Wait a few seconds)* Electrolyse Test Success *or* Electrolyse Test Cont. Problem *or* Electrolyse Test Cell. Problem **OK** → *Press and hold.* Test Results I+ = XX.X U+ = XX.X ↓ Test Results I- = XX.X U- = XX.X Currents and voltages supplying the cell, on each direction of polarity inversion (values for illustrative purposes only).

3.6.23. Settings reset

Menu	Important warning
Parameters Restore Param.	**I** **Resetting the parameters cancels all the settings made (factory configuration).**

3.7. Safety

3.7.1. Wintering mode

- **Wintering mode :**
  - is activated by default.
  - starts automatically as soon as the water temperature drops below 15°C.

- **When wintering mode is on :**
  - The message « `Low Temp Mode` » is displayed.
  - Production is stopped.
  - The pH regulation is maintained if it is activated.

- **To switch off wintering mode :** press on **OK**.

- **To disable wintering mode :** go to the « `Parameters - Alarms` », « `Alarms - Low Temp` » menu.

3.7.2. Alarms

- **All alarms are activated by default. Any alarm that is activated**

- **immediately appears on the screen.**

- **To dismiss an alarm :** press the **OK** or ↻ button (short or long press, depending on the alarm).

MESSAGE DISPLAYED / FAULT DETECTED	IMMEDIATE AUTOMATIC ACTION		CAUSE	CHECKS AND REMEDIES	OPTION TO DEACTIVATE VIA THE MENU « »
	Stopping production	Stopping pH regulation			
`Alarm pH Can empty`	No	Yes	pH corrector container empty.	Replace the pH corrector container.	Yes
`Alarm Cell Current`	Yes	No	Cell problem.	• Check that the cell is not scaled. • Inspect and adjust if necessary the inversion frequency of the current supplying the cell (« `Electrolysis - Inversion` » menu). • Check that the electrical connections to the terminals of the cell are sufficiently tight and not oxidised. • Check that the cell's power cable is in good condition. • Check that the cell's power cable connector is correctly connected to the electronics unit. • As a last resort, replace the cell.	No

MESSAGE DISPLAYED / FAULT DETECTED	IMMEDIATE AUTOMATIC ACTION		CAUSE	CHECKS AND REMEDIES	OPTION TO DEACTIVATE VIA THE MENU
	Stopping production	Stopping pH regulation			« »
Alarm Flow	Yes	Yes	Insufficient water flow through the filtration circuit.	Check that : • the flow sensor is connected to the electronics unit. • the flow sensor is activated (« Parameters – Sensors » menu). • the valves on the filtration circuit are open. • the filtration pump is working correctly. • the filtration circuit is not blocked. there is enough water in the pool.	No
Alarm Com. Failure	Yes	No	Loss of communication between the control board and the power board of the electronics unit.	Contact a professional.	No
Alarm pH Calibration	No	Yes	pH probe incorrectly calibrated.	• Carry out a calibration of the pH probe.	Yes
Alarm pH Injection	No	Yes	Series of 5 unsuccessful attempts to correct the pH.	• Ensure the pH corrector container is not empty. • Carry out a manual injection (menu « pH Regulation – Manual Injection »). • Check the condition of the filter with ballast and injection connector. • Check the settings in the « pH Regulation – Setpoint », « pH Regulation – Corrector » and « Parameters – Volume » menus.	Yes
Alarm No water	Yes	Yes	Insufficient amount of water in the filtration circuit.	• Carry out a calibration of the pH probe. Check that the filtration pump is running correctly. • Carry out a « Electrolyse Test ».	that the production setpoint is at 100 %.
Alarm ORP Regulation	Yes	No	ORP measurement out of tolerance for 24 hours (difference of ± 400 mV compared to the ORP setpoint).	• Carry out a « Electrolysis – ». Carry out a calibration of the ORP probe. Go to the « ORP Prod. » menu and check	

2024-3446
2024-08-19

Yes

Yes

MESSAGE DISPLAYED / FAULT DETECTED	IMMEDIATE AUTOMATIC ACTION		CAUSE	CHECKS AND REMEDIES	OPTION TO DEACTIVATE VIA THE MENU « »
	Stopping production	Stopping pH regulation			
`Alarm Low Salt`	Yes	No	Salt level less than 2.5 g/L (or 1.5 g/L if Low Salt equipment).	• Check the salt levels in the pool using a recent testing kit. Top up with salt if necessary, so as to obtain a salt level of 5 kg/m^3 (or 2.5 kg/m^3 for Low Salt equipment).	Yes
			Insufficient amount of water in the filtration circuit.	• Check that the pipe at the level of the salt sensor is completely filled with water. • If necessary, top up the water in the pool.	

3.7.3. Important precautions regarding the peristaltic pump

When one of the 2 messages below is displayed, the peristaltic pump is running.

`Manual Injection
          XX:XX` → *Real-time timer countdown*

or

`pH Injection
In Progress`

In this case, never remove the front panel of the electronics unit.

→ **If case of doubt about the correct functioning of the peristaltic pump:**
1) Switch off the electronics unit.
2) Remove the front cover of the electronics unit.
3) Remove the flexible hose inside the peristaltic pump.
4) Carry out a manual vacuum injection.

3.8. Further information

Menu	Meaning
`Soft Version MASTER: XX.XX.XX`	Control board program
`Soft Version SLAVE:  XX.XX.XX`	Power card program
`ID Code: XXXXXXXX`	Configuration code
`Serial Number: XXXX-XXXXXX-XXX`	Serial number
`MAC Address: XXXXXXXXXXXX`	MAC address for Bluetooth connection

MCU Temperature: XX°C	Internal temperature in the electronics unit

GUARANTEE

Before contacting your dealer, please have the following to hand :
- your purchase invoice.
- the serial no. of the electronics unit.
- the installation date of the equipment.
- the parameters of your pool (salinity, pH, chlorine levels, water temperature, stabilizer level, pool volume, daily filtration time, etc.)

Every effort and all our technical experience has gone into designing this equipment. It has been subjected to quality controls. If, despite all the attention and expertise involved in its manufacture, you need to make use of our guarantee, it only applies to free replacement of the equipment's defective parts (excluding shipping costs in both directions).

Guaranteeperiod(provenbydateofinvoice)
Electronics unit : 2 years.
Cell : - 1 year minimum outside the European Union *(excluding warranty extension)*.
      - 2 year minimum in the European Union *(excluding warranty extension)*.
Probes : depending on model. Repairs and spare parts : 3 months.
The periods indicated above correspond to standard guarantees. However, these can vary depending on the country of installation and the distribution network.

Scopeoftheguarantee
The guarantee covers all parts, with the exception of wearing parts that must be replaced regularly.
The equipment is guaranteed against all manufacturing defects within the strict limitations of normal use.

After-salesservices
All repairs will be performed in the workshop.
Shipping costs in both directions are at the user's own expense.
Any downtime and loss of use of a device in the event of repairs shall not give rise to any claim for compensation.
In all cases, the equipment is always sent at the user's own risk. Before taking delivery, the user must ensure that it is in perfect condition and, if necessary, write down any reservations on the shipping note of the carrier. Confirm with the carrier within 72 hours by recorded letter with acknowledgement of receipt.
Replacement under guarantee shall in no case extend the original guarantee period.

Guaranteeapplicationlimit
In order to improve the quality of their products, the manufacturer reserves the right to modify the characteristics of the products at any time without notice.
This documentation is provided for information purposes only and is not contractually binding with respect to third parties.
The manufacturer's guarantee, which covers manufacturing defects, should not be confused with the operations described in this documentation.
Installation, maintenance and, more generally, any servicing of the manufacturer's products should only be performed by professionals. This work must also be carried out in accordance with the current standards in the country of installation at the time of installation. The use of any parts other than original parts voids the guarantee ipso facto for the entire equipment.

Thefollowingareexcludedfromtheguarantee:
- Equipment and labour provided by third parties when installing the device.
- Damage caused by installation not in compliance with the instructions.
- Problems caused by modifications, accidents, misuse, negligence of professionals or end users, unauthorised repairs, fire, floods, lightning, freezing, armed conflict or any other force-majeure events.

Any equipment damaged due to non-compliance with the instructions regarding safety, installation, use and maintenance contained in this documentation will not be covered by the guarantee.
Every year, we make improvements to our products and software. These new versions are compatible with previous models. The new versions of hardware and software cannot be added to earlier models under the guarantee.

Implementationoftheguarantee
For more information regarding this guarantee, contact your dealer or our After-Sales Service. All requests must be accompanied by a copy of the purchase invoice.