• Read this notice carefully before installing, maintaining or repairing this appliance!

• The symbol ! indicates important information that you must take into account to avoid the risk of injury or damage to the appliance.

• The symbol ° indicates useful information as an indication.

⚠️ Warning

• As part of a continuous improvement process our products may be modified without prior notice.
• Exclusive use: pool water pH regulation system (not to be used for any other purpose).
• The appliance must be installed by a qualified technician, in compliance with the manufacturer’s instructions and in compliance with current local standards. The installer is responsible for the installation of the appliance and compliance with local regulations in matters of installation. Under no circumstances can the manufacturer be held liable in the event that applicable local installation standards are not respected.
• It is important that this appliance be handled by skilled and apt persons (physically and mentally) having received the instructions for use beforehand (by reading these instructions). All persons not meeting these criteria must not approach the appliance in order to avoid exposure to dangerous elements.
• If the appliance suffers a malfunction: do not try to repair the appliance yourself, contact your installer.
• Before working on the appliance, make sure that it, and any equipment connected to it, is powered off.
• Before any connections, make sure that the voltage indicated on the plate on the appliance corresponds to the mains voltage.
• Eliminating or shunting any safety devices will automatically void the warranty, as will the replacement of parts using parts not originating from our warehouses.
• Incorrect installation may cause damage to property or serious injuries (possibly causing death).
• Keep the appliance out of the reach of children.
• Do not use hydrochloric acid, use a specific pH correcting product recommended by your pool specialist.
Contents

1. Information before installing ................................................................................................................ 3
   1.1 General delivery terms and conditions ................................................................. 3
   1.2 Contents ......................................................................................................................... 3
   1.3 Technical specifications ............................................................................................... 3

2. Installation ........................................................................................................................................ 3
   2.1 Preparing the pool ............................................................................................................ 3
   2.2 Hydraulic connections........................................................................................................ 4
   2.3 Electric connections.......................................................................................................... 5

3. Use .................................................................................................................................................. 5
   3.1 Control box presentation ................................................................................................. 5
   3.2 Checks before commissioning .......................................................................................... 5
   3.3 Calibrating the sensor ....................................................................................................... 6
   3.4 Priming the peristaltic pump ............................................................................................. 6
   3.5 Settings ............................................................................................................................... 6

4. Maintenance .................................................................................................................................... 8
   4.1 Changing the peristaltic tube ............................................................................................ 8
   4.2 Wintering .......................................................................................................................... 9

5. Troubleshooting .............................................................................................................................. 9
   5.1 Display of the regulator ................................................................................................... 9
   5.2 Appliance malfunctions ..................................................................................................... 9

6. Registering the product .................................................................................................................... 10

Available in the appendices at the end of this instructions leaflet:
- Electric diagram
- Dimensions
- Description
- EC declaration of compliance
1. Information before installing

1.1 General delivery terms and conditions
All equipment, even postage and packing paid, travels at the risks and perils of the recipient. The latter must make written reserves on the transporter’s delivery documents if damage during transport is discovered (confirmed by registered letter to the transporter within 48 hours).

1.2 Contents

1.3 Technical specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply voltage</td>
<td>230Vac-50Hz</td>
</tr>
<tr>
<td>Electric output</td>
<td>9 W</td>
</tr>
<tr>
<td>Protection index</td>
<td>IP65</td>
</tr>
<tr>
<td>Maximum peristaltic pump flow</td>
<td>1.5L/hr</td>
</tr>
<tr>
<td>Maximum counter pressure at release point</td>
<td>1.5 bar</td>
</tr>
<tr>
<td>Correction</td>
<td>acid or basic</td>
</tr>
<tr>
<td>pH sensor tolerance</td>
<td>5 bar / 60 ºC / maximum water speed: 2m/s</td>
</tr>
<tr>
<td>Measurement scale</td>
<td>0.0 - 14.0 pH ± 0.1 pH</td>
</tr>
<tr>
<td>pH sensor response time</td>
<td>&lt; 15 seconds</td>
</tr>
</tbody>
</table>

2. Installation

2.1 Preparing the pool

2.1.1 Water balance
It is essential that the pool water balance is controlled and adjusted before installing the appliance. Making sure pool water balance is correct from the start will reduce the likelihood of problems occurring during the first days of operation or during the pool usage season.

Even though it is an automatic regulation system, it is essential to carry out regular water analyses to check the water balance parameters.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Recommended values</th>
<th>To increase</th>
<th>To lower</th>
<th>Test frequency (during the season)</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>/</td>
<td>7.2 – 7.4</td>
<td>Use the device in ‘alkaline’ dosage mode and/or increase set point</td>
<td>Use the device in ‘acid’ dosage mode and/or lower the set point</td>
<td>Weekly</td>
</tr>
<tr>
<td>Free Chlorine</td>
<td>mg/L or ppm</td>
<td>0.5 – 2</td>
<td>Add chlorine (manually or using automated system)</td>
<td>Stop the release or production of chlorine</td>
<td>Weekly</td>
</tr>
<tr>
<td>TA (Total Alkalinity or Buffer effect)</td>
<td>°f (ppm)</td>
<td>8 – 15 (80 – 150)</td>
<td>Add alkalinity corrector (Alca+ or TAC+)</td>
<td>Add hydrochloric acid</td>
<td>Monthly</td>
</tr>
</tbody>
</table>
### 2.1.2 Appliance release programme

Example: 4 cycles with a set point at 7.4 pH and acid regulation (standard alkalinity):

- **pH ≥ 7.55**: 20% injection (2 min) & 80% pause (8 min)
- **pH ≥ 7.7**: 50% injection (5 min) & 50% pause (5 min)
- **pH ≥ 7.85**: 75% injection (7 min 30 s) & 25% pause (2 min 30 s)
- **pH < 7.9**: 100% injection (10 min)

#### Notes:
- This is inverted of course when a basic dosage is selected.
- Active chlorine is more efficient with the correct pH level.
- Maximum release rate is 1.5 L/h This dosage ensures that is set point is reached quickly and accurately.
- This proportional release is cyclical and cycle duration is 10 mn. The doses will change according to the distribution of release times and pauses. The proportionality adjusts automatically and the balancing between the different doses is made using 0.15 pH steps.

### 2.1.3 Adjusting dosage according to alkalinity

The pH level of water is potentially unstable. Its stability is governed by the level of water alkalinity (also called TA for “Total alkalinity”). If the TA is low (< 100 ppm), the pH will become potentially unstable and conversely if the TA is high (> 150 ppm).

In order to always achieve optimal water balance, the appliance has a feature that allows users to adjust the quantity of correcting product potentially released depending on the water TA (see § 3.5.4)

#### 2.2 Hydraulic connections

### 2.2.1 Sensor location
- The pH sensor must be placed after the filter and before the heating system,
- It must be placed vertically or sloping at a maximum of 45°, it should never point downwards.
2.2.3 Sensor and injection point installation

- There must be at least 0.6 metre between the sensor and the point of injection. If this is not possible, use the POD kit available as an option or a check valve.
- Fixture collars/saddle clamps (or the POD kit) must be installed on rigid Ø50 PVC pipes. A Ø63 adapter is available as an option.
- The POD kit is recommended if a Redox regulation (chlorine) has also been fitted.
- Maximum pressure must not exceed 1.5 bar.
- Drill a hole with a diameter between 16 and 22 mm on the pipe at the selected locations for the sensor and the injection point.
- Then install the fixture collars/saddle clamps.
- Use the Teflon tape to ensure that the threads on the sensor holder, the injection valve, and its adapter are watertight.

2.3 Electric connections

- Using the supplied fixture kit, install the control box on a rigid, vertical surface in an easy to access location.
- Connect the power supply cable to a 230Vac mains outlet.
- Connected the bared wire to couple the filtering pump to the filtering pump 230Vac contactor using a relay to avoid any voltage returns when the pump is stopped.

Only power on the appliance once all connections (electric and hydraulic) are complete.

3. Use

3.1 Control box presentation

<table>
<thead>
<tr>
<th>Activating the sensor calibration mode (press for 5 seconds)</th>
<th>View the set point value (press for 5 seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Validate choice in the «Settings» menu</td>
<td>Exit the «Settings» menu</td>
</tr>
<tr>
<td>Cancel the «OFA» over feed safety system</td>
<td>Activate the «Priming» function (press the UP button for a long time)</td>
</tr>
</tbody>
</table>

Thanks to its double electrical supply, the appliance is always powered on, even if filtering is stopped, making it possible to display the water pH level at all times. The sensor can also be calibrated when filtering is stopped.

The appliance can be powered off at all times using the 0-1 switch on the side of the appliance.

3.2 Checks before commissioning

- The suction tube must be immersed in the disinfectant product container with the suction cane and is connected to the peristaltic pump (left side).
- The injection tube is connected on one side to the peristaltic pump (right side) and on the other side to the pool discharge pipe via the injection valve.
- The peristaltic pump cover must be refitted using its fixing screw.
3.3 Calibrating the sensor

For the appliance to operate accurately and reliably, the pH sensor must be calibrated regularly (on installation, on re commissioning after wintering, and every 2 months when in use).

- Rinse the tip of the pH sensor with clean water using the supplied bottle of H²O filled with tap water.
- Shake it to remove excess water.

Don’t wipe the sensor or touch its tip!

- Immerse the sensor in the bottle containing the pH7 buffering solution.
- Press \( \text{CAL Enter} \) for 5 seconds until \( \text{Calibration} \) is displayed, then \( \text{7pH Press CAL} \).
- Press \( \text{CAL Enter} \), the progress bar is displayed:
- After about 30 seconds, the pH sensor reliability is displayed as a percentage. If the value is above 25%, continue the calibration process, otherwise power off the appliance using the 0-1 button, replace the buffering solution and/or the pH sensor, then restart calibration.

- Rinse the tip of the pH sensor with clean water using the supplied bottle of H²O filled with tap water.
- Shake it to remove excess water.
- Immerse the sensor in the bottle containing the pH 4 buffering solution.
- Press \( \text{CAL Enter} \) to display \( \text{4pH Press CAL} \),
- Press \( \text{CAL Enter} \) to display the progress bar:
- After about 30 seconds, the pH sensor reliability is displayed as a percentage. If the value is above 25%, press \( \text{CAL Enter} \) to complete the calibration process, otherwise power off the appliance using the 0-1 button, replace the buffering solution and/or the pH sensor, then restart calibration.

- Rinse the tip of the pH sensor with clean water using the supplied bottle of H²O filled with tap water.
- Shake it to remove excess water.
- Fit the sensor back onto its holder.

3.4 Priming the peristaltic pump

The peristaltic pump is self-priming. However, it can be run manually by pressing \( \text{CAL Enter} \). The peristaltic pump will then run to inject corrector product as long as the key is kept pressed down.

3.5 Settings

3.5.1 «Settings» menu

<table>
<thead>
<tr>
<th>Menu</th>
<th>Default Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>French</td>
</tr>
<tr>
<td>pH set point</td>
<td>7.4</td>
</tr>
<tr>
<td>Dosage</td>
<td>Acid</td>
</tr>
<tr>
<td>Alkalinity level</td>
<td>Standard (100 &lt; TAC &lt; 150 ppm)</td>
</tr>
<tr>
<td>«OFA» Over Feed Alarm</td>
<td>4 hours</td>
</tr>
<tr>
<td>Calibration</td>
<td>Activated 2 points (pH7 and pH4)</td>
</tr>
<tr>
<td>Filtering operation detection</td>
<td>Activated «On»</td>
</tr>
</tbody>
</table>

- Press simultaneously on \( \text{CAL Enter} \) and \( \text{SET Esc} \) for 5 seconds when the appliance is powered on:
- To exit the menu, press \( \text{SET Esc} \) : \( \text{Exit Save} \),
- Select “Yes” or “No” using the following keys \( \text{CAL Enter} \) and \( \text{CAL Enter} \),
- Confirm by pressing \( \text{CAL Enter} \).
3.5.2 «Language» Menu
The interface has six available languages:
• EN = English,
• FR = French,
• ES = Spanish,
• DE = German,
• IT = Italian,
• NL = Dutch.

3.5.3 «Set point» menu
It is used to define the set point for the desired pH level.

2 methods:
• see §3.5.1.
Or:
• Press when the appliance is running:
• Keep pressed and adjust the set point using keys and .
• Release the key to exit.

3.5.4 «Dosage» menu
It is used to select the type of corrector product to be injected (acid or basic dosage).

3.5.4 «Alkalinity» menu
It is used to select the level of alkalinity for the pool water: standard \(100 < TA < 150 \text{ ppm}\), high \(TA > 150 \text{ ppm}\) or low \(TA < 100 \text{ ppm}\).

3.5.5 «OFA Time» Menu
The appliance is fitted with a safety system to avoid all risks of correction product overdoses if a problem occurs with the sensor for example. This safety mechanism, which is called «OFA» (= Over Feed Alarm), pauses the appliance if it has not reached the set point within a given time limit. A high value is strongly recommended to avoid any unplanned and/or unjustified triggering (a setting in excess of 4 hours is suitable for large pools and/or highly used pools or with high alkalinity levels).
The over feed safety operates in two main steps:

- flashes after 75% of the programmed time without having reached the set point
- is displayed when the time is up. The appliance then switches to safety mode.

If filtering stops and restarts (=daily cycles) while the appliance is in «Stop OFA» status, the appliance will activate an «OFA Test» mode for 1 hour to ensure that the measurements from the sensor are correct.

On completion of this «OFA Test» mode:
- if the set point has been reached = the appliance remains in normal mode
- if the set point has not been reached: the appliance switches to «OFA Alarm» mode with injection of corrector product.
- if the set point has still not been reached after the «OFA Alarm» mode is complete (=25% of total OFA set time), the appliance switches to «OFA Stop» safety mode and will remain in this state until a human intervention.

To acquit this safety measure and restart the appliance, press the \textcolor{red}{key}. First check that the sensor is in good condition and calibrated.

**Special over feed safety function:**
In order to prevent false alarms just after the appliance is installed, the over feed safety can be deactivated for 24 or 48 hours:

- Press \textcolor{red}{CAL} and at the same time to deactivate the safety system for 24 hours
- Press \textcolor{red}{SET} and at the same time to deactivate the safety system for 48 hours

3.5.6 «Calibration» menu
It is possible to perform calibration in a single step for pH7 (quicker but the measurements will be less reliable in time), or to remove this function (we advise strongly against this, except in the case of pools with a maintenance contract).

3.5.7 «Filtering» menu
This appliance is fitted with a double electric power supply making it possible to keep the appliance switched on to perform pH sensor calibration when filtering is not operational. This function can however, be deactivated in the case of a different electrical connection (only carried out by a professional).

\begin{center}
\textcolor{red}{The appliance will no longer take filtering status into consideration and may inject corrector product when there is no flow in the piping. This deactivation is only valid if the mains power cable is coupled to the filtering.}
\end{center}

3.5.8 Resetting the appliance
All the factory settings can be restored.

- Turn off the appliance
- Turn the appliance back on while pressing simultaneously and : \textcolor{red}{Init. Default Yes}
- Select «Yes» or «No» using the and keys, keys, then confirm by pressing \textcolor{red}{Enter}.

4. Maintenance

4.1 Changing the peristaltic tube
- Remove the peristaltic pump cover,
- Place the roller holder at «10:20» by turning it clockwise,
- Completely free the left fitting by keeping it stretched towards the outside,
- Then turn the roller holder clockwise to free the tube up to the right fitting.
- Make sure the roller holder is in the 10:20 position.
- Insert the left fitting of the new peristaltic tube in its housing.
- Then pass the tube into the roller holder guide.
- Turn the roller holder clockwise and accompany the tube up to the right fitting.
- Refit the peristaltic pump cover.
4.2 Wintering

- During wintering it is recommended to rinse the peristaltic tube using clean water by carrying out manual priming (see §3.4).
- Then place the roller holder at 6 o’clock to facilitate restarting.
- Remove the pH sensor from its holder and store it in its original bottle, or in a container filled with tap water.
- Close off the sensor holder if necessary.

 Always keep the sensor in water and protected from freezing.

5. Troubleshooting

5.1 Display of the regulator

<table>
<thead>
<tr>
<th>Message</th>
<th>Possible causes</th>
<th>Solutions</th>
</tr>
</thead>
</table>
| «Level»    | • Protector product container empty  
             • Floater blocked  
             • Level sensor short circuited. | • Replace the corrector product container  
                                 • Check that the white floater on the suction cane is in working order  
                                 • Change the suction cane |
| «OFA Alarm»| First step in the over feed safety system activated (time > 75%) | • Press to stop the alarm  
                      • Check the sensor and/or the pool pH level |
| «OFA Stop» | Second step in the over feed safety system activated (time = 100%) | • Press to stop the alarm  
                      • Check the sensor and/or the pool pH level |
| «OFA Check»| pH sensor measurement test when the «OFA Stop» was activated during a previous filtering cycle. | • Wait for the end of the procedure (1 hour) then check the sensor and/or the pool pH level. |
| «Flow»     | • Filtering stopped  
             • Incorrect connection  | • Start and/or check the filtering  
                                 • Check the electric connections |
| «Error»    | • Used Buffer solution(s)  
             • pH sensor dirty  
             • Defective pH sensor | • Replace the buffer solution(s)  
                                 • Clean the pH sensor using a 10% HCl solution  
                                 • Replace the pH sensor |
| «Error Parameter» | Setting error | • Press to cancel the fault  
                                 • Replace the electronic card |

5.2 Appliance malfunctions

<table>
<thead>
<tr>
<th>Malfunction</th>
<th>Possible causes</th>
<th>Solutions</th>
</tr>
</thead>
</table>
| The appliance always displays a pH value close to 7.0                        | Cable problem and/or BNC connector problem                                      | • Check that the connection between the sensor and the control box is not short circuited (between the cable’s central core and the external shielding)  
                                 |                                                                                  | • Check that there is no humidity and/or condensation at the BNC connector level |
| The appliance always displays an unsuitable value or the measure is constantly unstable | • pH sensor connection cable is damaged  
                                 • There is an air bubble in the pH sensor bulb  
                                 • The pH sensor is worn  
                                 • The pH sensor cable is too close to an electric cable causing disturbances  
                                 • The sensor is not correctly fitted on the piping. | • Check the cable and/or the BNC connector  
                                 • Position the pH sensor vertically and shake gently so that the air bubble rises to the top (sensor must be mounted vertically or at a 45° angle maximum, see §2.4)  
                                 • Replace the pH sensor  
                                 • Reduce the distance between the appliance and the sensor  
                                 • Place the sensor in a more suitable location (see §2.2.1) |
<table>
<thead>
<tr>
<th>Malfunction</th>
<th>Possible causes</th>
<th>Solutions</th>
</tr>
</thead>
</table>
| pH7 and/or pH4 calibration impossible (error message) or pH sensor reliability < 25% | • Buffer solution defective  
• Problem on porous element of sensor and/or deposits  
• pH sensor is worn | • Ensure that the solution used is pH7 or pH4  
• Check the pH of buffering solution using an electronic pH tester  
• Use new pH7 and/or pH4 buffering solution  
• Restart calibration  
• Check that the bulb on the pH sensor is not damaged or has not dried up while out of the water.  
• As a last resort, clean it by leaving sensor in a solution of 10% hydrochloric acid for a few hours.  
• Check that the porous element on the sensor is in good condition (clean with acid solution).  
• Replace the pH sensor |
| Slow response of pH sensor                       | pH sensor is charged electrostatically               | Do not use a cloth or paper to wipe the sensor, shake it gently                                |

6. Registering the product

Register your product on our website:
- be the first to be informed of new Zodiac products and special offers,
- help us to continuously improve our product quality.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia – New Zealand</td>
<td><a href="http://www.zodiac.com.au">www.zodiac.com.au</a></td>
</tr>
<tr>
<td>Europe, South Africa &amp; Rest of the World</td>
<td><a href="http://www.zodiac-poolcare.com">www.zodiac-poolcare.com</a></td>
</tr>
</tbody>
</table>
Schéma de raccordement électrique / Electric diagram / Elektrisches Anschlussschema / Elektrisch aansluitschema / Esquema de conexiones eléctricas / Esquema de ligações eléctricas / Schema di collegamento elettrico

Dimensions / Dimensions / Maße/ Afmetingen / Dimensiones / Dimensões / Dimensioni
<table>
<thead>
<tr>
<th>Français</th>
<th>English</th>
<th>Deutsch</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Pompe péristaltique</td>
<td>Peristaltic pump</td>
<td>Peristaltische Pumpe</td>
</tr>
<tr>
<td>2 Interrupteur général</td>
<td>Main switch</td>
<td>Gesamtschalter</td>
</tr>
<tr>
<td>3 Prise BNC de connexion de la sonde pH</td>
<td>BNC connector socket for pH sensor</td>
<td>BNC Anschluss der pH Sonde</td>
</tr>
<tr>
<td>4 Presse-étoupe pour le câble d’asservissement direct à la filtration</td>
<td>Cable gland for direct coupling with filtering system</td>
<td>Kabeldurchführung für das direkte Regelungskabel der Filterung</td>
</tr>
<tr>
<td>5 Raccord pour tube d’aspiration</td>
<td>Connector for suction tube</td>
<td>Anschluss für das Saugrohr</td>
</tr>
<tr>
<td>6 Raccord pour tube d’injection</td>
<td>Connector for injection/release tube</td>
<td>Anschluss für das Injektionsrohr</td>
</tr>
<tr>
<td>7 Presse-étoupe pour le câble de la canne d’aspiration</td>
<td>Gland for suction cane cable</td>
<td>Kabeldurchführung für das Kabel des Saugstocks</td>
</tr>
<tr>
<td>8 Presse-étoupe pour le câble d’alimentation 230Vac/50Hz</td>
<td>Gland for 230Vac/50Hz power supply cable</td>
<td>Kabeldurchführung für das 230Vac/50Hz Stromkabel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nederlands</th>
<th>Español</th>
<th>Português</th>
<th>Italiano</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Peristaltische pomp</td>
<td>Bomba peristáltica</td>
<td>Bomba peristáltica</td>
<td>Pompa peristáltica</td>
</tr>
<tr>
<td>2 Hoofdschakelaar</td>
<td>Interruptor general</td>
<td>Interruptor geral</td>
<td>Interruttore generale</td>
</tr>
<tr>
<td>3 BNC-aansluiting voor de pH-sonde</td>
<td>Toma de conexión BNC para conectar la sonda pH</td>
<td>Conetor BNC da sonda de pH</td>
<td>Presa BNC di collegamento della sonda pH</td>
</tr>
<tr>
<td>4 Pakkingbus voor de rechtstreekse aansluitkabel van de filtering</td>
<td>Prensaestopas para el cable de conexión directa «dependiente» a la filtración</td>
<td>Empanque para o cabo de alimentação direta à filtragem</td>
<td>Premistoppa per il cavo d’asservimento diretto alla filtrazione</td>
</tr>
<tr>
<td>5 Passtuk voor de zuigbuis</td>
<td>Racor para el tubo de aspiración</td>
<td>Ligação para o tubo de aspiração</td>
<td>Raccordo per tubo d’aspirazione</td>
</tr>
<tr>
<td>6 Passtuk voor de injectiebuis</td>
<td>Racor para el tubo de inyección</td>
<td>Ligaçãp para o tubo de injeção</td>
<td>Raccordo per tubo d’iniezione</td>
</tr>
<tr>
<td>7 Pakkingbus voor de kabel van de zuighengel</td>
<td>Prensaestopas para el cable de la cánula de aspiración</td>
<td>Empanque para o cabo da cana de aspiração</td>
<td>Premistoppa per il cavo della canna d’aspirazione</td>
</tr>
<tr>
<td>8 Pakkingbus voor de voedingskabel 230Vac/50Hz</td>
<td>Prensaestopas para el cable de alimentación 230Vac/50Hz</td>
<td>Empanque para o cabo de alimentación 230Vac/50Hz</td>
<td>Premistoppa per il cavo d’alimentazione 230Vac/50Hz</td>
</tr>
</tbody>
</table>
DECLARATION DE CONFORMITE  

déclare que les produits ou gammes ci-dessous :

declares that the herewith products or ranges

**pH Perfect; pH Expert; pH Clever; Chlor Perfect; Chlor Expert; Chlor Clever**

Sont conformes aux dispositions :

Are in conformity with the provisions

- De la directive COMPATIBILITE ELECTROMAGNETIQUE  2004/108/CE.
- Of the ELECTROMAGNETIC COMPATIBILITY directive 2004/108/EC

**Les normes suivantes ont été appliquées :**

*The standards have been applied*

EN61000-6-1 ;  EN61000-6-2 ;  EN61000-6-3 ;  EN61000-6-4

- De la directive BASSE TENSION 2006/95/CE.
- Of the LOW VOLTAGE directive 2006/95/EC

**Les normes suivantes ont été appliquées :**

*The standards have been applied*

EN 60335-2-41

- De la directive Machine 2006/42/CE.
- Of the MACHINE directive 2006/42/EC

**Les normes suivantes ont été appliquées :**

*The standards have been applied*

EN 809

Nom et titre du signataire :

Christian BOURRET
Directeur Qualité

Fait à BELBERAUD, le 15 Janvier 2015
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