







INSTALLATION AND USER GUIDE

IMPORTANT SAFETY INSTRUCTIONS, READ AND FOLLOW ALL OF THE INSTRUCTIONS, KEEP THESE INSTRUCTIONS

PENTAIR WATER SOLUTIONS SB-CU-IMP-056C

(Rev. 11/2019)



EN

CE

Pentair thanks you for placing your trust in the company and purchasing a SOLEO®, the control automation system for essential swimming pool equipment. SOLEO® Chlore will automatically control your pool locally.

Please carefully read this user manual to fully benefit from all of the functions of SOLEO® Chlore. Store it carefully so that it can be consulted at any time.



Declaration of conformity

Directives - Harmonised standards

Pentair International Sarl - Avenue de Sévelin 18 - 1004 Lausanne - Switzerland

We declare, under our own responsibility, that the product meets the directives

RED 2014/53/EU SAFETY EN 61010-1:2010; EN 62311: 2008 EMC EN 301 489-1 V2.2.0; EN 301 489-3 V2.1.1; EN 61326-1; 2013 RADIO EN 300 220-2 V3.1.1

SOLEO CHLORE (+ PARTS) SB-PF-SOL-004C Other normative documents

PART NUMBERS: SB-SE-SOL-002B



Lausanne, 2019 07 01

Guillaume Goussé European Operations Vice President

Product specifications: SB-PF-SOL-004C model Operating temperature: 0° to 40° C Maximum operating altitude: 2,000 m Main box (internal use): IP 64

Operating hyprometry: 40% at 75° C Weight (excluding probes): 1.2 kg

Power supply: 230 V ~, 50 Hz Consumption: 3.2 W



Waste treatment of electronic devices at the end of their service life:

The crossed-out bin placed on the main parts which make up the product indicates that it must not be disposed of together with the household waste. It must be returned to an appropriate collection point for electronic device recycling (information available from the local household waste collection service). This product contains potentially dangerous substances which may have adverse effects on the environment and human health.

Customer Support: PISA, ITALY (8:30 A.M. to 4:30 P.M.) CET

website: www.pentairpooleurope.com

- Warranty (excluding probes and consumables): 2 years

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- The document is subject to change without notice

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IMPORTANT SAFETY GUIDELINES, READ AND FOLLOW ALL OF THE INSTRUCTIONS, KEEP THESE INSTRUCTIONS





- DANGER - INSTALLERS, POOL SPECIALISTS AND OWNERS MUST CAREFULLY READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THIS PRODUCT.

- WARNING - Most countries regulate the construction, installation and operation of public swimming pools and spas, and the construction of residential pools and spas. It is important to comply with these regulations, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.

- WARNING - This installation and user guide contains important information on the installation, operation and safety of this product. This guide should be provided to the owner and/or user of this product.

INSTALLATION

- DANGER - RISK OF ELECTRIC SHOCK or electrocution

- BEFORE WORKING ON THIS DEVICE - Always cut the supply to the device at the circuit breaker before maintenance. Failure to do this may lead to death or serious injury to service staff, pool users or others, due to an electric shock.

- DANGER - SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS PRODUCT IS NOT INSTALLED AND USED CORRECTLY.

- WARNING - Before installing this product, read and follow the warnings and instructions of this guide. Failing to follow these warnings and instructions may lead to serious injuries, death or material damage. Refer to www.pentairpooleurope.com for more information linked to this product.

- WARNING - Connect the device to a differential interrupter. If this system is used to control the underwater lighting devices, a differential interrupter must be installed upstream of these devices. Conductors downstream of the differential interrupter shall not be located in ducts, junction boxes or enclosures containing other conductors, except if the conductors are also protected by a differential interrupter. Refer to valid local codes for more details.

- WARNING - This product must be installed by an authorised or certified electrician or a qualified swimming pool professional. All of the applicable installation codes and local regulations must also be respected. Poor installation will create an electrical hazard which could result in serious injury or the death of pool users, installers or others due to electric shocks, and may also cause damage to property.

- DANGER - DISCONNECT THE POWER SUPPLY CONNECTIONS BEFORE WORKING ON THIS DEVICE; ELECTRICAL POWER MAY BE SUPPLIED TO THE RELAY TERMINALS FROM OTHER SOURCES.

- WARNING - CHEMICAL BURN HAZARD: Make sure all pumps are switched off at the main circuit breakers at the domestic distribution board before drilling into any pipes. Set rules for all handling related to electrical aspects, water and chemical products. Group the supply pumps and chemical product tanks in a safe and secured area.

- WARNING - Do not use this product to control an automatic swimming pool cover. There is a risk that swimmers could become trapped under the cover.

- WARNING - Devices which are not intended for use in single-family dwellings may require additional safety equipment to comply with local regulations.

- WARNING - Except for remote controls, install components at a minimum of at least 1.5 m (5 feet) from the inside wall of the pool or spa.

- WARNING - This product is intended for use in swimming pool applications only.

- WARNING - A sufficient equipotential connection (min. 4.5 mm2 recommended), in accordance with local regulations, is obligatory for all metal components of the swimming pool, including the pool pump. This is necessary for the electrical safety as well as reduction of the corrosion risk.

- WARNING -: If the device is installed and / or used contrary to specifications and recommendations, the protections will be compromised.

USE

- DANGER - DO NOT LET CHILDREN OPERATE THIS EQUIPMENT.

- WARNING – Strictly respect the safety and handling procedures from the acid manufacturers, including protective measures for hands, body and eyes during transfer and use of acid. Follow the prescribed safety precautions for handling muriatic acid intended for checking the water pH. Muriatic acid may cause serious physical harm and may damage the swimming pool equipment. Extra care must be taken when installing, maintaining and operating the acid pump feed systems. Acid is dangerous to handle and should be properly contained, transported, poured, stored and dispensed.

- WARNING - Check the pH and sanitizer levels of the water before using the pool and make sure the filtration device is not obstructed.

- WARNING - Periodically use an independent pH and chlorine testing kit to ensure that the pH and chlorine is at a safe level. If the pH and Oxidation Reduction Potential (ORP) or conductivity probes are broken, depleted or dirty with oils, lotions, or other contaminants, they can report inaccurate results to the system causing incorrect water chemistry, which could harm people or equipment.

- WARNING - Consult the device display daily to ensure there are no alarm messages.

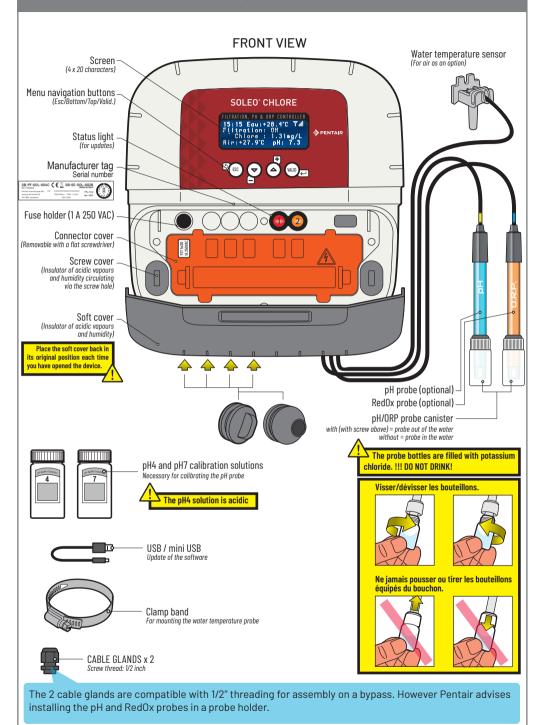
- DANGER - Water temperatures greater than 37.7° C (100° F) are a health hazard. Prolonged immersion in hot water may induce hyperthermia. Hyperthermia occurs when the internal body temperature exceeds the normal temperature of 37° C (98.6 °F) by several degrees. Hyperthermia may produce the following effects: (1) Unawareness of impending danger. (2) Failure to perceive heat. (3) Failure to recognise the need to leave the spa. (4) Physical inability to leave the spa. (5) Harm to the foetus in pregnant women. (6) Unconsciousness leading to the risk of drowning. The use of alcohol, drugs or medicine is a factor which increases the risk of hyperthermia in hot tubs and spas.

- WARNING - When mixing acid with water, ALWAYS ADD THE ACID TO THE WATER. Never add water to the acid. When adding a chemical product to the swimming pool, carefully follow the manufacturer instructions.

- DANGER - DO NOT MIX SODIUM HYPOCHLORITE AND MURIATIC ACID.

- DANGER - Keep standard solutions away from children, ensure that the bottles are securely closed, store them in a dry and ventilated location and do not let them freeze. The pH 4 calibration solution is acidic.

Contents of the box and description



Description

SOLEO CL is the brain of the system. SOLEO calculates automatically and controls the operating time of each piece of the equipment.

- Access to information in the technical room:

- SOLEO CL supplies the information on a backlit display.

- Control of the equipment in the technical room:

SOLEO CL supplies the dry contacts to which the classic equipment of the technical room is connected (filtration pump, disinfectant [electrolyser, dosing pump], pH pump).

Please do not use the individual automations of the equipment. SOLEO CL will start/stop the devices. If SOLEO CL is linked to a SPEEDEO, the activation duration of the filter is managed by SOLEO CL, while the

VS pump speeds are managed by SPEEDEO (depending on the events).

- Receiving and processing information:

The probes supply the information required for regulating SOLEO CL; indeed, at the end of a dosing (disinfection, addition of a pH regulator), the probes send a value which makes it possible for SOLEO CL to refine its settings.

Functions

Filtration control:

- By calculating the time according to the pool temperature (automatic mode).
- By programming a 24 hour cycle (makes it possible to benefit from off hours).
- By integrating the frost protection function (activation of the filtration below 3°C, modifiable value).
- Possibility to select the start time and end time of the filtration in automatic mode (to prevent noise at night).
- Possibility to increase or reduce the filtration time according to the use of the swimming pool (economical mode = pool with a low number of visitors, turbo mode = pool with a high number of visitors) or by default + or
- 30% (value can be adjusted).
- Possibility to change into "SHOCK" mode (forcing of the filtration and electrolyser for 24 hours).

Control of a disinfectant dosing pump or brominator:

- By integrating the information supplied through the amperometric probe.

Control of a pH pump:

- By integrating the information supplied through the pH probe.

SOLEO CL also makes it possible to visualise, on its screen (in the technical room):

- The instant pool information (free chlorine level, water level [pH + RedOx as options]).

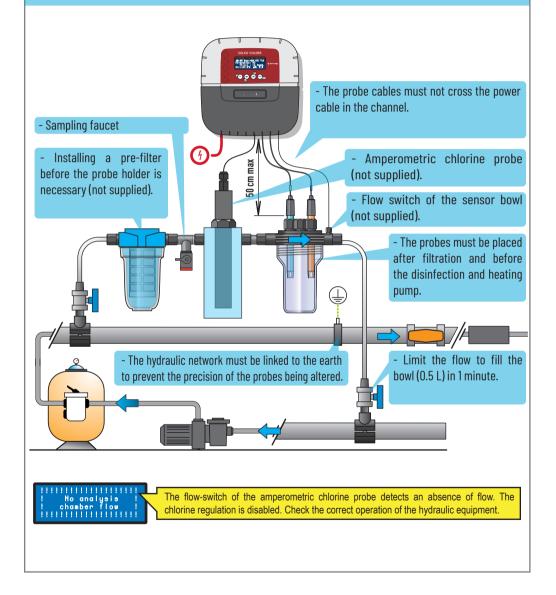
- The functioning durations of the filtration and disinfection from the current day (since midnight) and from the previous day.

- The functioning durations of the filtration and disinfection from the previous day (full 24 hours).

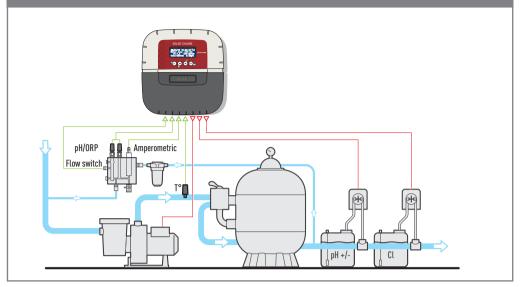
Therefore, in summer and winter, you no longer need to worry about your filtration and you limit the interventions in the technical room to a bare minimum.

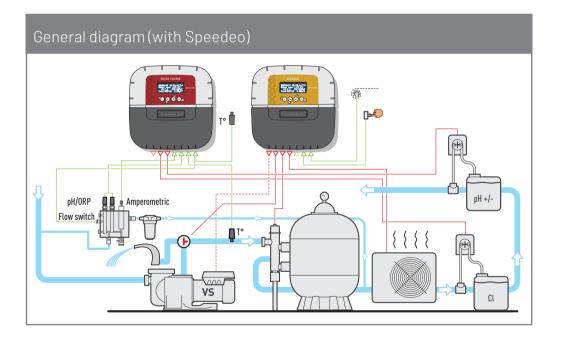
Installation organisation

However installing the probes in a bypass is advised (SB-PD-PR0-005B) which slightly optimises the quality of the measurement and the service life of the probes. The installation of the chlorine probe holder is described in its own operating instructions. To prevent the probe holder being obstructed, installing a pre-filter upstream is necessary. However SOLEO CL is supplied with 2 probe holders intended for clamp saddles, ensuring quick installation.



General diagram (without Speedeo)





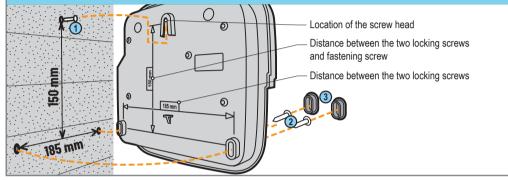
Wall fixing

- This device is intended to be used inside, installed in a technical room which cannot be accessed by children.

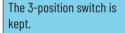
- Set the device at a height lower than 2 m using three screws (4 to 5 mm diameter) in appropriate plugs for the type of support and fix the device vertically on a clean support which is able to bear a minimum vertical load of 5 kg.

Pierce three holes in accordance with the below dimensions then place 3 suitable plugs.

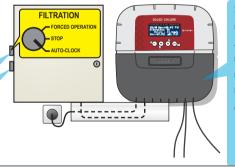
- 1 Tighten the screw at the top, leaving 2 mm under the screw head, then hang the device on this.
- 2 Place the 2 lower screws.
- 3 Add the 2 lower screw covers to ensure a full seal.



Basis for settings in an existing installation

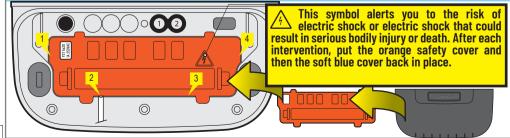


It makes it possible to rinse the filter using the positions FORCED OPERATION/STOP. If used with SOLEO, position on CLOCK.



SOLEO CL is connected to a classic electrical installation. All of the outlets are dry contacts which are normally open (NO) and can interrupt up to 230 V-10 A (above this, add a contactor).

A safety cover which cannot be unclipped without a tool is positioned above the connectors which provide the voltage. > Place a flat screwdriver on the flat part of clips 2 and 3, while keeping pressure on to unclip it.



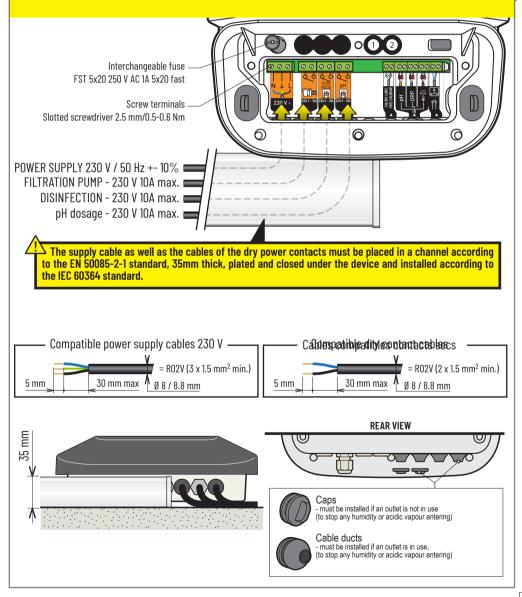
Electrical connections regulation

The device must be installed by a qualified technician according to valid local regulation
 This device is permanently connected.

- The 2 poles of the power supply of the device is cut by its interrupter, which must be close and must remain accessible at all times.

- The device needs to be connected to the earth and its power supply needs to be protected by 16A 30 mA differential protection. This protection must be cut before any intervention on the device.

- Overvoltage category II (2,500 V peak) electrical device. If necessary, place overvoltage protection equipment before the device.



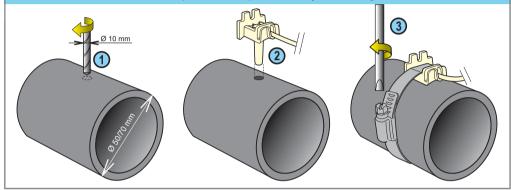
Water and air temperature probes.

SOLEO CL is supplied with a temperature probe which will be assigned to the water. It is possible to mount a second temperature probe for the air temperature used to manage the frost protection process of heated technical rooms.

INSTALLATION OF THE WATER TEMPERATURE PROBE

The temperature probe can be installed outside the bypass in front of the filter of the pump or in front of the filter inlet in order to improve the reading precision.

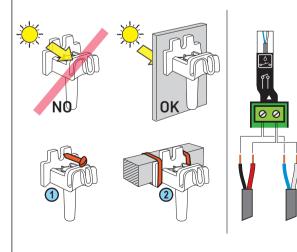
- 1 Pierce the PVC pipe (diam. 50-70 mm) to a diameter of 10 mm (3/8 inch).
- 2 Remove the burrs and check the O-ring under the probe.
- 3 Place the sensor in the hole, then place the clamp band in the groove and tighten.



INSTALLATION OF THE AIR TEMPERATURE PROBE (OPTION)

- If the air temperature probe is connected, it automatically becomes the reference value for the management of the anti-freeze protection. The air temperature probe is placed outdoors, away from direct sunlight so that the measurement is not distorted. It can be easily moved due to its 6 m long cable.

- 1 Mount it on a wall by using screws.
- 2 Mount it on a horizontal bar of a grate by using a cable tie.



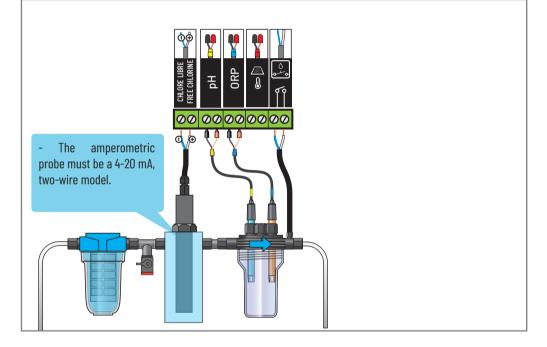
The air temperature probe is parallel connected with the Flow Switch Filtration inlet.

- When the filtration runs, the flow switch signal is the one taken into account. Therefore the swimming pool cannot freeze.

- When the filtration is not on, the air temperature is the one being measured. If it reaches the preset lower limit, then the filtration is started for 60 minutes before a new temperature measurement is taken. After 15 minutes, the filtration is started if the air temperature is still below the designated threshold.

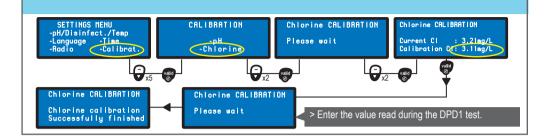
Connection of probes (pH + ORP + water temperature) 1 - Completely unscrew the strain relief bushing: be careful and do not let the black, flexible seal fall. 2 - Pass the 3 cables through the screw and strain relief bushing 3 - Connect each pod according to the indicator under each terminal block 4 - Tighten using a 2.5 mm/0.5-0.6 Nm slotted screwdriver 5 - Securely re-tighten the strain relief bushing by hand Only Pentair probes are compatible and guarantee proper functioning of the device.

Connection of the amperometric probe and flow detector



CALIBRATION MODE - Calibration of the chlorine probe on the SOLEO CL

The chlorine probe must be calibrated as soon as the value is different from the value imposed by valid legislation (DPD1 test). Calibrating the chlorine probe is therefore voluntary correction of the value.



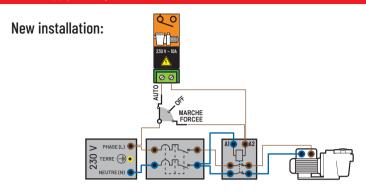
Reading and understanding messages - free and active chlorine

The chlorine sensor measures the free chlorine and the active chlorine.
 The free chlorine = active chlorine and reserve chlorine
 Total chlorine = combined chlorine and free chlorine

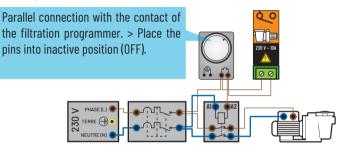


PARAMETERS	REGULATORY QUALITY	HYGIENE	IMPACTS ON
CHECKED	LIMIT(S)	RECOMMENDATIONS	WATER QUALITY
Free chlorine if stabilising < 25 mg/L	0.4 to 1.4 mg/L		Makes it possible to find the disinfectant potential of water if the chlorine used is a non-stabilised chlorine.

If SOLEO CL is linked to a SPEEDEO, the SOLEO CL filtration outlet is only supplied with power when SPEEDEO starts the VS pump (whatever the speed). This SOLEO CL filtration outlet can for example be used to supply a UV light.



Existing installation:



Home menu > Filtration menu:

-Filtr Debut Fin Mode	07:00 AUTO	ON	

Mode: This setting increases or decreases the filtration time to compensate for the size of the pump and/or activity in the swimming pool. Factory settings: Turbo = +30%, Eco = -30% (can be modified in the Instal. menu).

Filtration:

 \mbox{Auto} = $\mbox{Automatically calculates the filtration duration}$ according to the water temperature.

On = The filtration runs 24/7.

 $\mathsf{Off} = \mathsf{The} \mathsf{ filtration}$ is stopped (attention: the freeze-protection mode becomes inactive).

Timer = The filtration will run during the chosen timeframe from start to finish.

Shock = The Shock function triggers 24 hours of forced filtration and electrolysis. This function can be useful after the pool has been used by many visitors and when the pool temperature is high. At the end of Shock mode, SOLEO returns to Auto mode.

If the Timer mode is activated, the line 'Stop:' appears and gives you control of the filtration start and end time, to control the level of noise linked to your pool (filtration noise). By default, leave Stop on Auto.

Filtration - Expert menu

• Secured Install menu (on the main menu, press Esc and Valid at the same time for 3 secs. A star appears in the top right corner of the home screen). This menu, active for 15 min., makes it possible to access the more sensitive functions which are set when the device is put into service.

Home Menu > Filtration instal. menu:

Mode: ECO ORP priority Antifreeze : ŒEco mode : Turbo mode :	+3°C -30%

This setting makes it possible to modify the percentage of increase or reduction of the filtration time from 0 to 99%. (Factory settings; Turbo = +30%, Eco = -30%). To achieve the RedOx (ORP) set point, the filtration will start in 1 hour cycles outside of the authorised hours (because this equipment needs to function when the filtration is on). This function only works in ORP default mode.

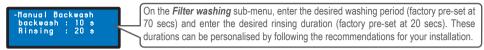
Below this temperature, the filtration runs 24/7 to prevent the pool from freezing (active wintering).

- If the air temperature probe is connected: this will be the reference value for managing the freeze protection. Place it outdoors, out of direct sunlight so that the measurements are not distorted (see p06).

- If the air temperature probe is not connected: it is the water temperature probe which becomes the reference value for managing the freeze protection. Please check that the technical room is not heated or has a significantly different temperature in comparison with the temperature outside. If this is the case, adding the temperature difference at +3.0°C is appropriate to compensate for this difference.

🕖 SOLEO CL supports you in backwashing the filter by chronologically proposing the different required steps.

Welcome menu > filtration menu:



Filtration menu > Manual backwash:

Press VALID to start washing	tart the procedure.
Put the 6-way value of the formation and the formation of	ve in the Washing position and then hold it down VALID.
Image: Mashing in the progress of the sector sec	filtration pump for the length of time entered into the field backwash :
SOLEO stopped t	he filtration pump. This display only remains for 2 seconds.
Put into position Put the 6-way value Rinsing + 'Uolid.'	ve in the <i>Rinsing position</i> and then hold it down <i>VALID</i> .
SOLEO starts the progress 17secs	filtration pump for the length of time entered into the field <i>Rinsing:</i>
Stop filtration	he filtration pump. This display only remains for 2 seconds.
Put into position IFiltration + Valid! finished.	ve in the <i>Filtration</i> and then hold it down <i>VALID</i> . The procedure is

Connection of a safety filtration feedback system

To prevent any acid or chlorine being added without any water flow, securing the operation of SOLEO CL by connecting a flow switch after the filtration pump is necessary. SOLEO CL will only start the pH or disinfectant control (never at the same time) if the contact of this flow rate detector is closed.

1 - Connect the flow switch to the air temperature inlet in accordance with the diagram. If this input is already in use by a temperature probe, connecting the flow switch in parallel is sufficient.

Secured Install menu (on the main menu, press Esc and Valid at the same time for 3 secs. A star appears in the top right corner of the home screen).

2 - In the Filtration menu, go down to Flow Switch and select: YES.

-Flow Switch: YES



Use of RedOx

If the amperometric probe is inoperative, if a shock chlorination needs to be performed (risk of damage with freezing and to the membrane of the amperometric probe) or even in the case of active wintering, relying on the values supplied by the RedOx probe to guide disinfection is advised.

The Red0x/ORP (oxidation reduction potential) is the disinfectant concentration level (chlorine, bromine, active oxygen, etc.) present in the pool. Keeping within 650 mV and 750 mV is recommended for this 'disinfection power' measurement. The oxidation reduction potential indicates the oxidiser quality present in the water. It is the result of the disinfectant quantity/pollution quantity ratio.



A RedOX WHICH IS TOO HIGH IRRITATES SKIN AND MAY DAMAGE PARTS OF YOUR POOL. A RedOX WHICH IS TOO LOW MAY BE A HYGIENE HAZARD > ensure that: the canister has been removed from the

RedOx probe (see pO4) and that the RedOx probe is not clogged (see p23)

> manual regulation (OFF position): > Add the disinfectant (chlorine, bromine, active oxygen, etc.) until the desired value is reached.

Connection and configuration of a 230-V dosing pump for disinfectant at the disinfection outlet.

🥡 The disinfection outlet is valid for any type of disinfection. It is a dry contact and does not supply any voltage.

1 - Connect the cables in accordance with the diagram.

2 -Select AUTO in the sub-menu Disinfectant/Mode so that the dosing pump supplies the disinfectant until the set value is reached. OFF completely stops the disinfection.

3 – Select in the Disinfectant/Set-point sub-menu the value (in mV, by default 700 mV, see the bottom of this page) that needs to be reached.

4 - If required, selecting Priming and pressing on Valid. manually starts the connected pump as long as Valid. remains pressed in.

- Enter the secured Install menu (on the main menu, press Esc and Valid at the same time for 3 secs. A star appears in the top right corner of the home screen).

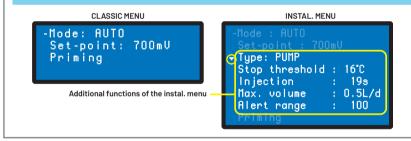
5 -In the Disinfectant/Type sub-menu, select PUMP to indicate that the disinfection is not done by an electrolyser.

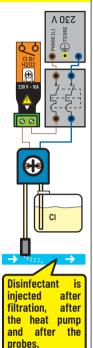
6 - In the Disinfectant/Stop threshold sub-menu, modify the temperature limit below which the pump will no longer function, which is 16 $^{\circ}$ C by default).

7 - In the Disinfectant/Injection sub-menu, modify the duration of each injection (from 1 to 255 secs, by default 15 secs) performed every 15 minutes.

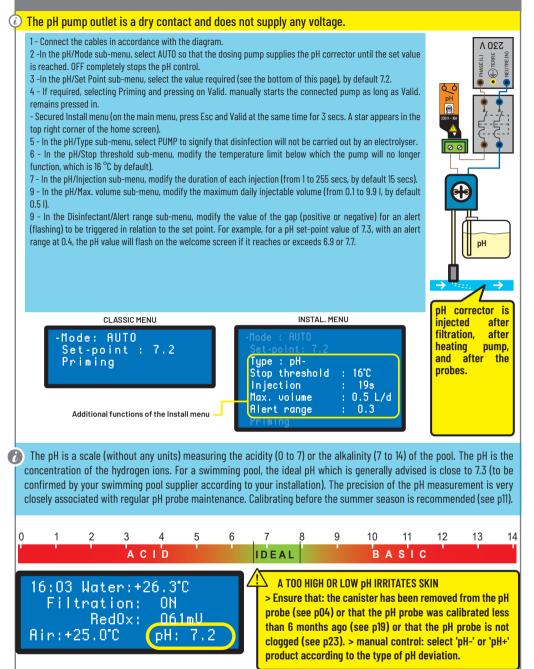
8 - In the pH/Max. volume sub-menu, modify the maximum daily injectable volume (from 0.1 to 9.9 l, by default 0.5 l) for a pump with a flow rate of 1 l/h.

9 - In the Disinfectant/Alert range sub-menu, modify the value of the gap (positive or negative) for an alert (flashing) to be triggered in relation to the set value. For example, in case of a RedOx setpoint at 700 mV, with an alert threshold at 100, the RedOx value will flash on the home screen if it reaches or exceeds 600 mV or 800 mV.





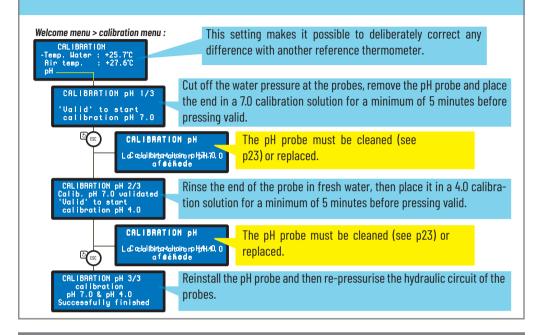
Connection and configuring a 220 V pH corrector injection pump.



If the pH value suddenly becomes inconsistent, check if an air bubble at the bottom of the pH probe is resulting in a bad measurement. Shake the probe (as for a mercury thermometer) so that any air bubbles rise up by the centrifugal force.

Calibration menu (pH probe)

Calibrating the pH probe before the bathing season is strongly advised, and then every 3 to 6 months after this. The service life of a pH probe is 18/24 months on average, according to the flow which passes through the probe. The Pentair pH probe is available from your swimming pool supplier.

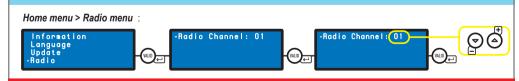


Radio menu (radio pairing between SOLEO CL and SPEEDEO)

16:03 Water:+26.3°C Filtration: 0N Red0x: 736mU Air:+25.0°C pH: 7.2

This symbol (antenna) indicates that SOLEO CL is connected to a SPEEDEO.

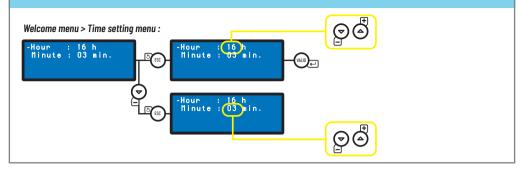
This menu can only be accessed at SOLEO. The default radio channel is Channel 01 (same for SPEEDEO). The devices have a range of 30 m. A SOLEO CL and a SPEEDEO set on the same radio channel and at a distance of less than 30 m will automatically be paired. If several different installations are close to each other, it is possible to shift the radio channel of one of the installations to one of the other 9 channels (2 to 10) to prevent interference. It is therefore important to choose the same channel number on the 2 devices to be paired.

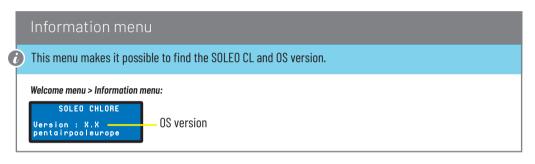


If SOLEO CL is linked to a SPEEDEO, the SOLEO CL filtration outlet is only supplied with power when SPEEDEO starts the VS pump (whatever the speed). This SOLEO CL filtration outlet can for example be used to supply a UV light.

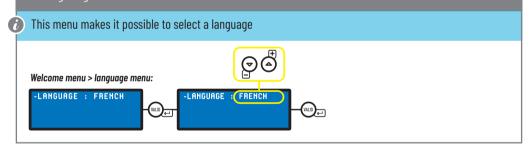
Time setting menu:

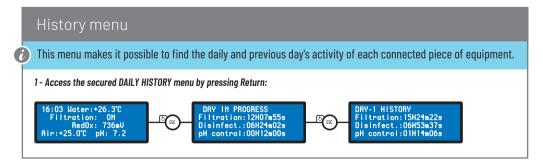
This adjustment makes it possible to set the time of the device. If the power supply is interrupted for more than 30 min., reinstalling the time is necessary.





Language menu





Navigation menus (1/2)

—	— Filtration: AUTO, SHOCK, TIMER, OFF, ON
	— Start: 07:00
	— End: Auto
	— mode: Eco, Normal, Turbo
	— ORP priority: ON, OFF
	— Frost prevention: +3 °C
	— Algorithm: t=T VS, BlueVS, T/2Cla, BluCla
	— Eco mode: -30%
	— Turbo mode: +30%
	— Flow switch: YES, NO
ilter wa	shing
	— Manual washing: 'Valid' to start washing
	— Washing: 70 secs
	— Rinsing: 20 secs
isinfect	ant
	— mode: AUTO, OFF
	— Probe: REDOX, CHLORINE, BROMINE, PEROXIDE
	— Set point: 650 mV (REDOX probe mode)
	or
	— Set point: 1.0 mg/L (CHLORINE, BROMINE, PEROXIDE probe mode)
	— Proportional: YES, NO (CHLORINE, BROMINE, PEROXIDE probe mode)
	— Type: PUMP, ELECTROLYSIS, PEROXIDE, WEEK, DAY
	— Stop threshold: 16 °C
	— Injection: 15 sec (every 15 m) (PUMP mode type)
	— Pool Pool: 48M3 (PEROXIDE mode type)
	— Dos. pump: 1.0 L/h (PEROXIDE mode type)
	— Vol/week: 0.4 L (Mode Type PEROXYDE)
	— Comp. Temp.: 1.0 (PEROXIDE mode type)
	— Max. volume: 0.5 L/day (PEROXIDE mode type & PUMP type only)
	— Alert range: 100 (if the set point is 650 mV, minimum alert = 650-100 = 550 mV, maximum alert = 650+100 = 750 m
	— Priming: ACTIVE (while OK button is held down)
н	
	— mode: AUTO, OFF
	— Set point: 7.2
	— Туре: рН-, рН+
	— Stop threshold: 3 °C
	— Injection: 15 secs (every 15 mins)
	— Injection: 15 secs (every 15 mins)

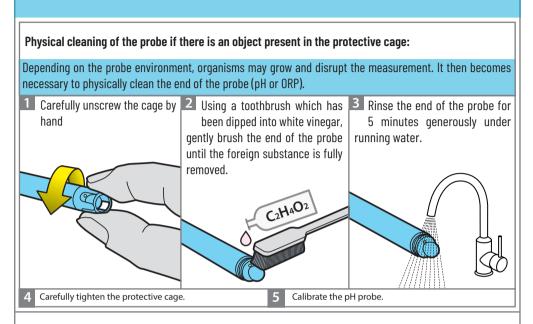
21

Navigation menus (2/2)

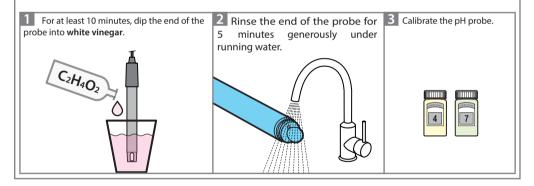
	time Time: 7 hours Minute: 45 min.
	Temp. Water: 25.1 °C Temp. air: 27.8 °C pH: 7.0, pH 4.0 Disinfect. : 1.2 mg/L (Mode Sonde CHLORE, BROME, PEROXYDE)
	Firmware version Cl coef: 0.5 (Cl probe calibration coef: 1.0 = ideal) Current: 10 mA (current of the Cl probe: 4 mA = 0 mg/L, 20 mA = 10 mg/L)
Languages	LANGUAGE: FRANCAIS, ENGLISH
Update	Firmware update: 'insert the USB stick and hold down the Up key'
Radio	Radio channel: 01 (set the same as Speedeo)
<u> </u>	(press ESC KEY in the main menu) DAY IN PROGRESS: Filtration: , disinfect: pH control. DAY-1 ACTIVITY: Filtration: Disinfect.: pH control

MAINTENANCE - Cleaning of the pH or ORP probe.

Deposition of scale or suspended elements in the pool may occur. The probes are fragile measuring parts, they need to be carefully cleaned. In particular, do not scratch the platinised surfaces of the electrodes of the conductivity probe.



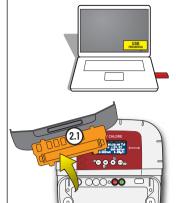
Chemical cleaning of the probe (no element is present in the protective cage:



General maintenance.

🕖 Clean the outside with a dry microfiber cloth. Do not use solvent, abrasive or acid.

How to update the internal firmware



1.1 - Unzip the MAJ-Soleo_CL8_vXX.zip file to obtain the Soleo_cl.bin file.

1.2 - Copy the soleo.bin file to the main folder of the USB stick formatted in FAT 16 or FAT 32.

2.1 - Remove the soft cover, then remove the orange cover !! DO NOT TOUCH THE ELECTRICAL CONNECTIONS. RISK OF ELECTROCUTION! ONLY PROFESSIONALS AUTHORISED TO WORK WITH LIVE INSTALLATIONS MAY WORK ON THE CONNECTED DEVICE WITHOUT A SAFETY COVER.

Home menu > Update menu :



3.1 - Select the update menu

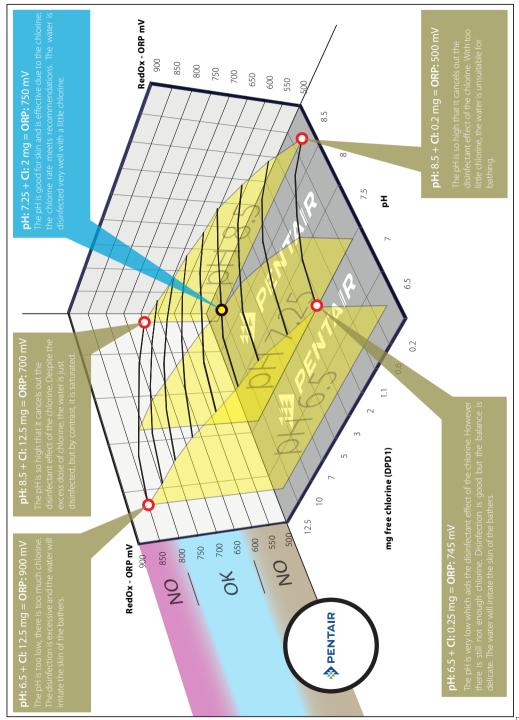


- 4.1 Connect the USB cable supplied to the mini USB connector.
- 4.2 Connect the USB stick to the end of the USB cable
- 4.3 Press on the "up arrow / +" for more than 1 sec.
- 4.4 The red and orange indicators light up.
- 4.5 Wait for the orange indicator to remain off for 5 sec.



5.1 - Disconnect the USB stick (the orange indicator lights up)
5.2 - In the main menu at the bottom, under Information, read the version no.: X.X and check that it has changed.
5.3 - Replace the orange safety cover
5.4: Replace the soft cover.







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