HAYWARD®



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ANWENDERHANDBUCH
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HAYWARD POOL EUROPE - 1070 Allée des Chênes - CS 20054 Saint Vulbas - 01154 Lagnieu Cedex - France

HAYWARD®



AquaRiteLT

OWNER'S MANUAL

PLEASEKEEPTHISMANUALFORFUTUREREFERENCE

HAYWARD POOL EUROPE - 1070 Allée des Chênes - CS 20054 Saint Vulbas - 01154 Lagnieu Cedex - France



WARNING:Electricalhazard.
Failuretocomplywiththeseinstructionscanresult inseriousinjuriesordeath.
THEEQUIPMENTISINTENDEDTOBEUSEDONLYIN SWIMMINGPOOLS

⚠ WARNING –Carefullyreadtheinstructionsthatappearinthismanualandonthedevice.Failure tocomplywiththeinstructionscancauseinjuries.Thisdocumentmustbegiventoeverypooluser, whoshouldkeepitinasafeplace.

⚠ WARNING –Disconnecttheequipmentfromthemainssupplybeforeanyintervention.

⚠ WARNING –Allelectricalconnectionsmustbecarriedoutbyaqualifiedapprovedelectrician inaccordancewiththestandardscurrentlyinforceinthecountryofinstallation.

F	NF C 15-100		GB	BS7671:1992
D	DIN VDE 0100-702		EW	SIST HD 384-7-702.S2
A	ÖVE 8001-4-702		H	MSZ 2364-702:1994 / MSZ 10-533 1/1990
E	UNE 20460-7-702 1993, REBT ITC-BT-31 2002		M	MSA HD 384-7-702.S2
IRL	IS HD 384-7-702		PL	TS IEC 60364-7-702
I	CEI 64-8/7		CZ	CSN 33 2000 7-702
LUX	384-7.702 S2		SK	STN 33 2000-7-702
NL	NEN 1010-7-702		SLO	SIST HD 384-7-702.S2
P	RSIUEE		TR	TS IEC 60364-7-702

⚠ WARNING – Check that the device is plugged into a power outlet that is protected against short-circuits. The device must also be powered via an isolating transformer or a residual current device(RCD)withanominaloperatingresidualcurrentnotexceeding30mA.

⚠ WARNING–Ensurethatchildrencannotplaywiththedevice.Keepyourhandsandanyforeign objectawayfromopeningsandmovingparts.

⚠ WARNING –Checkthatthesupplyvoltagerequiredbytheproductcorrespondstothevoltage of the distribution network and that the power supply cables are suitable for the product power supply.

⚠ WARNING –Chemicalscancauseinternalandexternalburns.Toavoiddeath,seriousinjury and/ordamagetoequipment,wearpersonalprotectiveequipment(gloves,goggles,mask,etc.)when servicingormaintainingthisdevice.Thisdevicemustbeinstalledinanadequatelyventilatedplace.

⚠ WARNING–Theunitshallnotbeoperatedwhenthereisnowaterflowinthecell.

⚠WARNING –Thecellshallbelocatedinawellventilatedenvironmentsohazardousaccumulation ofhydrogengasdoesnotoccur.

⚠ WARNING –Toreducetheriskofelectricshock,donotuseanextensioncabletoconnectthe devicetothemains.Useawallsocket.

⚠ WARNING –Theappliancecanbeusedbychildrenagedfrom8yearsandaboveandpersons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, if theyhavebeengivensupervisionorinstructionconcerninguseoftheapplianceinasafewayand understand the hazards involved. Children must not play with the device. User maintenance and cleaningmayonlybecarriedoutbychildrenifthey areatleast8yearsoldandarebeingsupervised. Keepthedeviceandthecableoutofreachofchildrenyoungerthan8yearsold

⚠ WARNING –UseonlyoriginalHaywardparts.

⚠ WARNING –Ifthepowersupplycableisdamaged,itmustbereplacedbythemanufacturer,the after-salesserviceorsimilarlyqualifiedpersonstoavoiddanger.

⚠ WARNING – The device must not be used if the power cord is damaged. An electric shock couldoccur.Adamagedpowercordmustbereplacedbytheafter-salesserviceorsimilarlyqualified personstoavoiddanger.

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REGISTRATION

Thank you for choosing Hayward. This manual contains important information regarding the operation and maintenance of your product. Please retain it for reference.

TOREGISTERYOURPRODUCTINOURDATABASE,GOTO:
www.hayward.fr/en/services/register-your-product

ForYourRecords

Record the following information for your convenience:

1) Purchase Date_____

2) Complete Name _____

3) Address _____

4) Zip code_____

5) Email Address_____

6) Part number_____Serial number_____

7) Pool Dealer_____

8) Address_____

9) Zip code_____Country_____

Note

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GENERAL

The AquaRite LT is a pool treatment system.

It can be used to treat your pool effectively by salt water electrolysis. For the chlorinator to function, it requires a low concentration of salt (sodium chloride) in the pool water. The Aqua Rite LT automatically disinfects your pool by converting the salt into free chlorine which kills the bacteria and algae in the pool. The chlorine reverts back to sodium chloride. This continuous cycle means that there is no need to treat your pool manually.
The AquaRite LT is suitable for treating most residential swimming pools.
The quantity of chlorine required to treat a swimming pool correctly varies according to the number of bathers, the rainfall, water temperature and the cleanliness of the pool...

NOTE: Before installing this product on the filtration system of a pool or spa with an adjacent natural stone terrace or deck, consult a qualified installer who will advise you on the type, installation, sealant (if any) and maintenance of stone that can be laid around a saline pool.

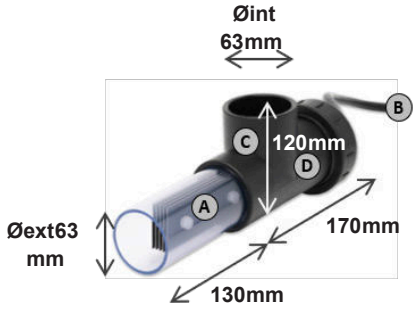
NOTE: The use of dry acid such as sodium bisulfate to adjust the pH of the swimming pool is not recommended, especially in arid regions where pool water is subject to significant evaporation and is not commonly diluted with mains water. Dry acid can cause a build-up of by-products that can damage your chlorinator.

INSTALLATION

Description







ELECTRONICBOX

A	Main connection 230 V - 50 Hz
B	Cell connection
C	Gas detector connection
D	4 A Fuse
E	4 A Fuse
F	pH and Rx connection
G	ON/OFF switch

CELL

A	Electrolysis cell
B	Connection to unit
C	Cell housing
D	Flow/gas detector (internal)

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Wall-mountedinstallation

Fix the box and the measuring chamber on the wall (optional). The box must be installed in the equipment room (dry, temperate, ventilated). Caution, acid vapours can cause irreversible damage to your device. Position the treatment product tanks accordingly.

The AquaRite LT must be fitted a minimum horizontal distance of 3.5 m (or more, if required by local regulations) from the pool, within 1 m of a protected outlet and within 4.5 m of the planned cell location.
The box must be placed vertically on a flat surface, with the cables downwards. As this box is also used to evacuate heat (heat dissipation from internal components), it is important that the four sides of the box remain unobstructed. Do not to install the AquaRite LT behind a panel or in an enclosed space.

Before installing the control unit in the intended location, check that the power cord can reach the protected outlet and that the cell cable can reach the intended cell location.







Disconnect the pool filtration pump before starting the installation. The system must be installed in accordance with the standards currently in force in the country of installation. The control box must be fitted a minimum horizontal distance of 3.5 m (or more, if required by local regulations) from the pool, within 1 m of a protected outlet and 4.5 m of the planned cell location. Install and use the product at an altitude below 2000 m.

The flow switch must be installed on the return pipe directly in line with and upstream of the cell and the treatment product injection point. Allow a 25 cm straight section before the flow switch. A hole should previously have been drilled in the pipe to allow the flow switch to pass through. Screw the flow switch into the saddle clamp, taking care to seal with Teflon. Then install the clamp on the pipe. The flow switch must be installed in the direction of operation to ensure that it is tripped by the flow from the filtration pump.

All the metal components of the swimming pool can be connected to the same earth as per local regulations.

KitpHStandard/KitORPStandard(optional)



pH probe



Probe holder



Saddle clamp



Péristaltic Pump



ORP probe



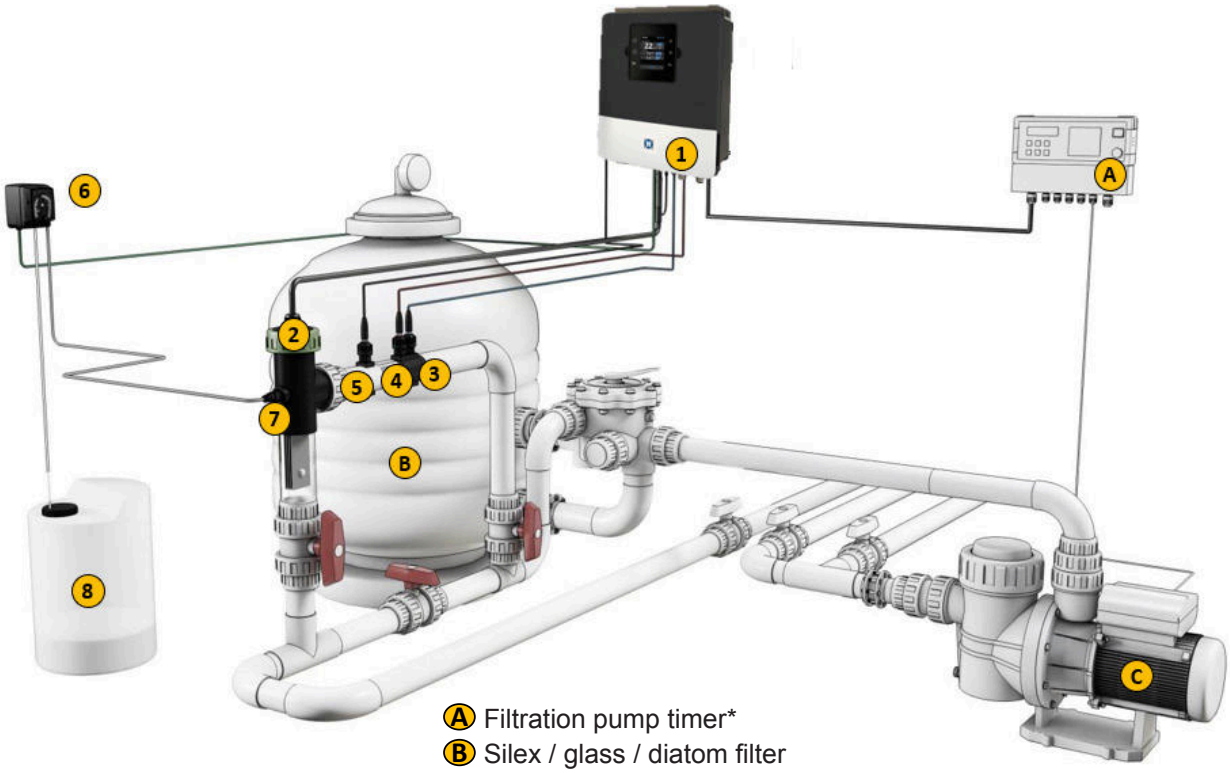
Probe holder



Saddle clamp



ORP chip



Ⓐ Filtration pump timer*
Ⓑ Silex / glass / diatom filter
Ⓒ Recirculation pump

① Electronic box
② Electrolysis cell (always vertical)
③ pH probe (optional)
④ Rx probe (optional)
⑤ Temperature probe (optional)
⑥ Acid dosing pump (optional)
⑦ Acid injector (optional)
⑧ Sulphuric acid container (not supplied)

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InstallingthepHandORPprobes

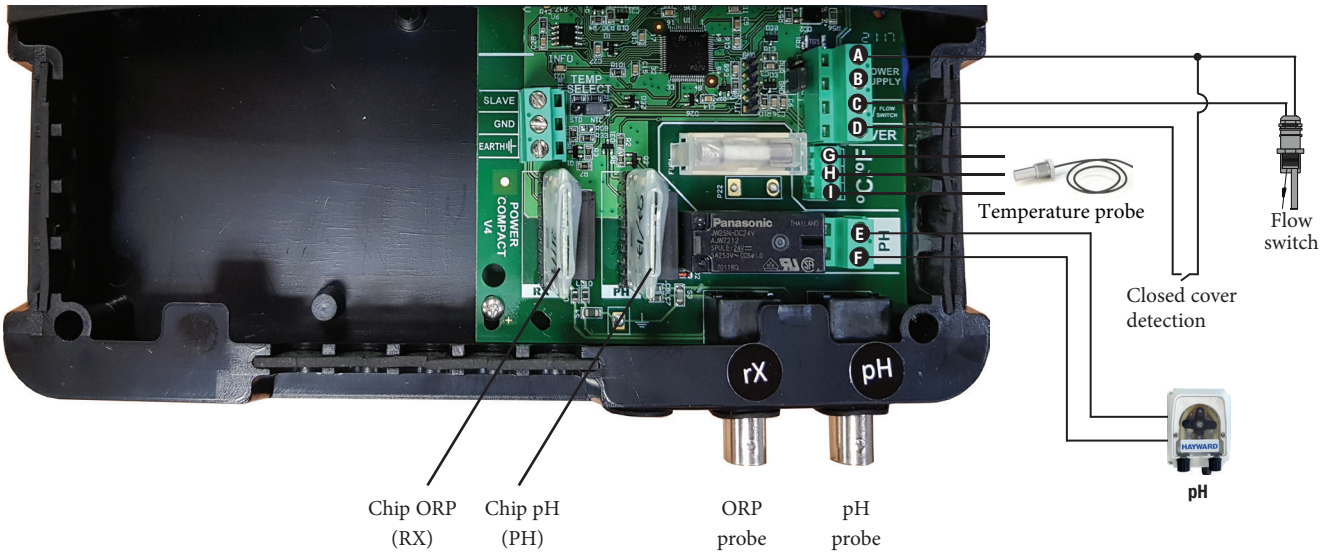
The pH and ORP probes are «wet» packed and protected by a plastic cap. The probes must always remain wet. If the probes are allowed to dry, they will be permanently unusable (not covered by the warranty) and the pH-ORP test kit will be ineffective.
Remove the pH and ORP probes from their plastic protective caps and set the caps aside for later use (wintering). Insert the probes into the probe holder and tighten to ensure that they are watertight. Place the probe holder on the saddle clamp and tighten by hand only. Check that the probes are watertight at startup. Seal with Teflon, if required.

After installation, check that the probes are constantly in contact with the water in the pool. When the filtration pump is not running (even for long periods), the water remaining in the chamber may be sufficient to protect the probes. The product (acid, etc.) injection device must be installed last on the water return line, after any equipment (heater, cell, etc.). A hole should previously have been drilled in the pipe to allow the treatment product to pass through. Install the saddle clamp and screw the injection valve into the saddle clamp using the adapter provided. Seal with Teflon.
Use the transparent PVC hose for suction (between the acid tank and the peristaltic pump) and the semi-rigid white polyethylene tube for injection (between the peristaltic pump and the injection valve).
For the ORP option, install the ORP card in the RX slot on the motherboard.

Electricalinstallationandwiring

Connect the AquaRite LT to a permanent power outlet.

⚠: This circuit must be protected by a residual current device (RCD) (residual current: 30 mA max.).

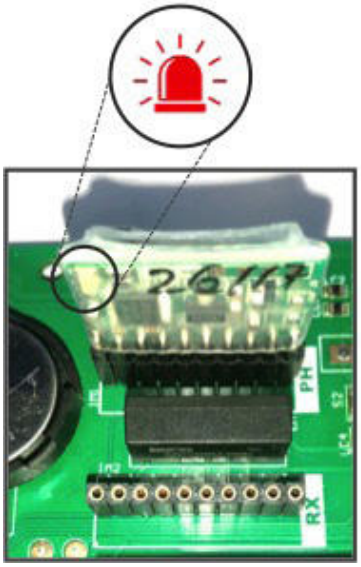


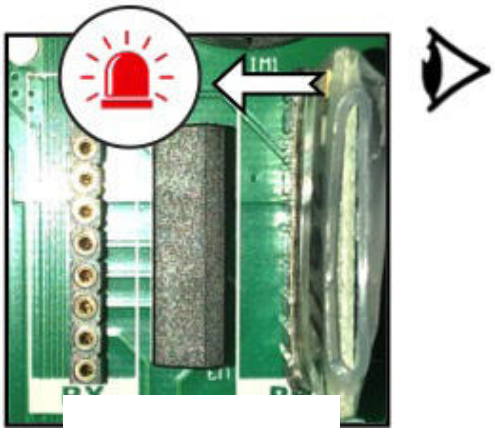
Connectinginputs:

Name	Description	Terminals	Typeofinput/output
FL1	Flow switch:	A - C	Dry contact
Cover	Closed cover detection	A - D	Dry contact
pH	Peristaltic pump (optional)	E - F	230 V∿ voltage output
°C/°F	Temperature probe	G - I	G-Red, H-Yellow, I-Black (V1) G-Brown, H-Yellow, I-White (V2)

Connect the flow switch supplied to input terminals A and C.

Directionofchips

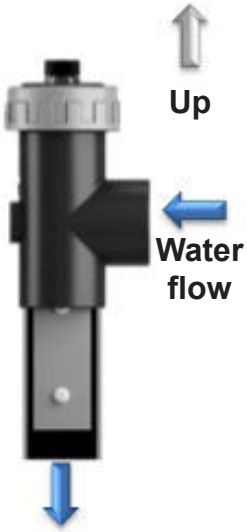




Connectingthecellto thedevice



Flowofwaterthrough theinstallation



Attention

Installation of the cell in a vertical position inside the pipe is recommended.
If it is installed horizontally, it is compulsory to add a mechanical flow switch (available as an option) and to suitably adapt the configuration of the device.

Preparingthepoolwater

To prepare the pool water to enable the AquaRite LT to function, its chemical composition must be balanced and salt added. This must be done **BEFORE** turning on the AquaRite LT. Certain adjustments to the chemical balance of the pool can take several hours. The procedure must therefore be started well before the AquaRite LT is turned on.

Adding salt: Add the salt several hours or, if possible, a day before turning on the AquaRite LT. Ensure that the recommended amount of salt is used. Measure the salt content 6 to 8 hours after adding the salt to the swimming pool.

NOTE: If the water in the pool is not fresh and/or if it is liable to contain dissolved metals, use a metal remover, according to the manufacturer's instructions.
If your water has previously been treated with a product other than chlorine (bromine, hydrogen peroxide, PHMB, etc.), neutralize this product or replace all the water in the pool.

Saltconcentration

Use the following table to determine the quantity of salt (in kg) needed to reach the recommended concentrations. Use the formulae below if you do not know the volume of your swimming pool.

	m^3 (pool dimensions, in m)
Rectangular	Length x width x Average depth
Round	Diameter x Diameter x Average depth x 0.785
Oval	Length x width x Average depth x 0.893

The ideal salt concentration is between 2.7 and 3.4 g/l, with 3.2 g/l being the optimum value. If the level is low, determine the volume (m^3) of the pool and add salt in accordance with the following table. A low salt level reduces the efficiency of the AquaRite LT and reduces chlorine production. A high salt concentration can cause the AquaRite LT to fail and make your pool water taste salty. As the salt in your pool is constantly being recycled, the loss of salt during the season is minimal. Salt is mainly lost when water has to be added due to splashing, backwashing or draining (because of rain). Salt is not lost through evaporation.

Typeofsalttouse

Use only salt intended for chlorinators in conformance with EN 16401. Use only sodium chloride (NaCl) that is more than 99% pure. Do not use food-grade salt, iodized salt, salt containing yellow prussiate of soda or salt containing anti-caking additives.

Howtoaddorremovesalt

For new pools, let the plaster dry for ten to fourteen days before adding salt. Start up the filtration pump, then add salt directly into the intake side of the pool. Make the water circulate to speed up the dissolution process. Do not allow salt to accumulate at the bottom of the pool. Run the filtration pump for 24 hours, opening the main drain valve fully to allow the salt to dissolve evenly throughout the pool.

The only way to lower the salt concentration is to partially empty the pool and refill it with fresh water.

Always check the stabilizer (cyanuric acid) when checking the salt concentration. The corresponding concentrations tend to decrease together. Refer to the following table to determine the quantity of stabilizer to be added to bring the concentration to 25 ppm. Add stabilizer only if necessary.
Do not add stabilizer to indoor pools.

Quantity ofsalt(kg)requiredfor3.2g/l

Current salt concentration ing/l	Volumeofwaterinthepoolinm³																
	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150
0	97	121	145	170	194	218	242	267	291	315	339	364	388	412	436	460	484
0.2	91	114	136	159	182	205	227	250	273	295	318	341	363	385	408	430	453
0.4	85	106	127	148	170	191	212	233	255	276	297	318	339	360	382	403	424
0.6	79	98	118	138	158	177	197	217	236	256	276	297	317	337	358	378	398
0.8	73	91	109	127	145	164	182	200	218	236	255	273	291	310	328	346	364
1	67	83	100	117	133	150	167	183	200	217	233	250	267	283	300	317	333
1.2	61	76	91	106	121	136	152	167	182	197	212	227	243	258	274	289	304
1.4	55	68	82	95	109	123	136	150	164	177	191	205	218	232	246	259	263
1.6	48	61	73	85	97	109	121	133	145	158	170	182	195	207	219	231	243
1.8	42	53	64	74	85	95	106	117	127	138	148	159	169	180	190	201	211
2	36	45	55	64	73	82	91	100	109	118	127	136	145	154	163	172	181
2.2	30	38	45	53	61	68	76	83	91	98	106	114	121	129	137	144	152
2.4	24	30	36	42	48	55	61	67	73	79	85	91	98	104	110	117	123
2.6	18	23	27	32	36	41	45	50	55	59	64	68	73	77	81	86	90
2.8	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
3	6	8	9	11	12	14	15	17	18	20	21	23	24	26	27	29	30
3.2	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal	Ideal
3.4	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
3.6&+	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted	Diluted

Quantity ofstabilizer(CYANURICACIDinkg)requiredfor25ppm

Currentsalt concentration(ppm)	Volumeofwaterinthepoolinm³																
	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150
0ppm	0.75	0.94	1.13	1.34	1.53	1.69	1.91	2.09	2.28	2.47	2.66	2.84	3.03	3.22	3.41	3.59	3.75
10ppm	0.45	0.56	0.68	0.81	0.92	1.01	1.14	1.26	1.37	1.48	1.59	1.71	1.82	1.93	2.04	2.16	2.25
20ppm	0.15	0.19	0.23	0.27	0.31	0.34	0.38	0.42	0.46	0.49	0.53	0.57	0.61	0.64	0.68	0.72	0.75
25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Chemicalwaterbalance

The water must be balanced manually **BEFORE** the device is started up.

The following table summarizes the concentrations recommended by Hayward. Your water should be checked regularly to maintain these concentrations and minimize surface corrosion or deterioration.

CHEMISTRY	RECOMMENDED CONCENTRATIONS
Salt	3,2 g/l
Free chlorine	1.0 to 3.0 ppm
pH	7.2 to 7.6 (7.2 recommended).
Cyanuric acid (Stabilizer)	20 to 30 ppm max. (Add stabilizer only if necessary) 0 ppm in indoor pool
Total alkalinity	80 to 120 ppm
Water hardness	200 to 300 ppm
Metals	0 ppm
Saturation index	-0.2 to 0.2 (preferably 0)

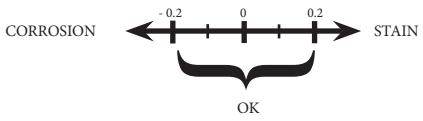
Saturationindex

The saturation index (Si) gives us information about the calcium content and alkalinity of the water; it is a water balance indicator. Your water is correctly balanced if the Si is 0 ± 0.2. If the Si is below -0.2, the water is corrosive and the coating on the pool walls may be damaged. If the Si is above +0.2, stains may appear. Use the table below to determine the saturation index.

Si=pH+Ti+Ci+Ai-12.1

°C	°F	Ti	Hardness Calcium	Ci	Total alkalinity	Ai
12	53	**0.3**	75	**1.5**	75	**1.9**
16	60	**0.4**	100	**1.6**	100	**2.0**
			125	**1.7**	125	**2.1**
19	66	**0.5**	150	**1.8**	150	**2.2**
24	76	**0.6**	200	**1.9**	200	**2.3**
			250	**2.0**	250	**2.4**
29	84	**0.7**	300	**2.1**	300	**2.5**
34	94	**0.8**	400	**2.2**	400	**2.6**
			600	**2.4**	600	**2.8**
39	100	**0.9**	800	**2.5**	800	**2.9**

Use: Measure the pH of the pool water, the temperature, water hardness and total alkalinity. Use the table above to determine Ti, Ci and Ai in the formula shown above. If the Si is equal to 0.2 or more, stains may appear. If the Si is equal to -0.2 or less, corrosion or deterioration may occur.



⚠ **WARNING –** Chemicals can cause internal and external burns. To avoid death, serious injury and/or damage to equipment, wear personal protective equipment (gloves, goggles, mask, etc.) when servicing or maintaining this device. This device must be installed in an adequately ventilated place.

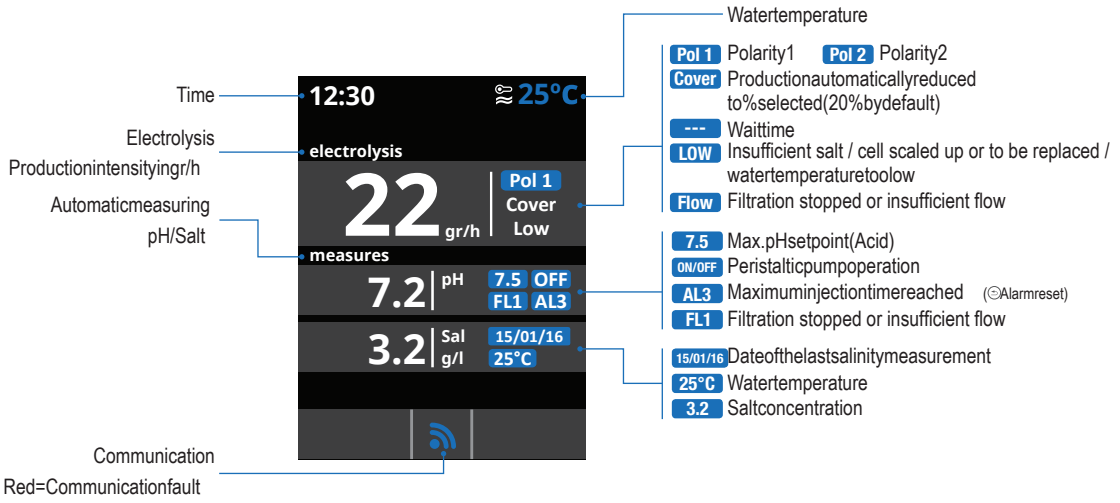
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OPERATION

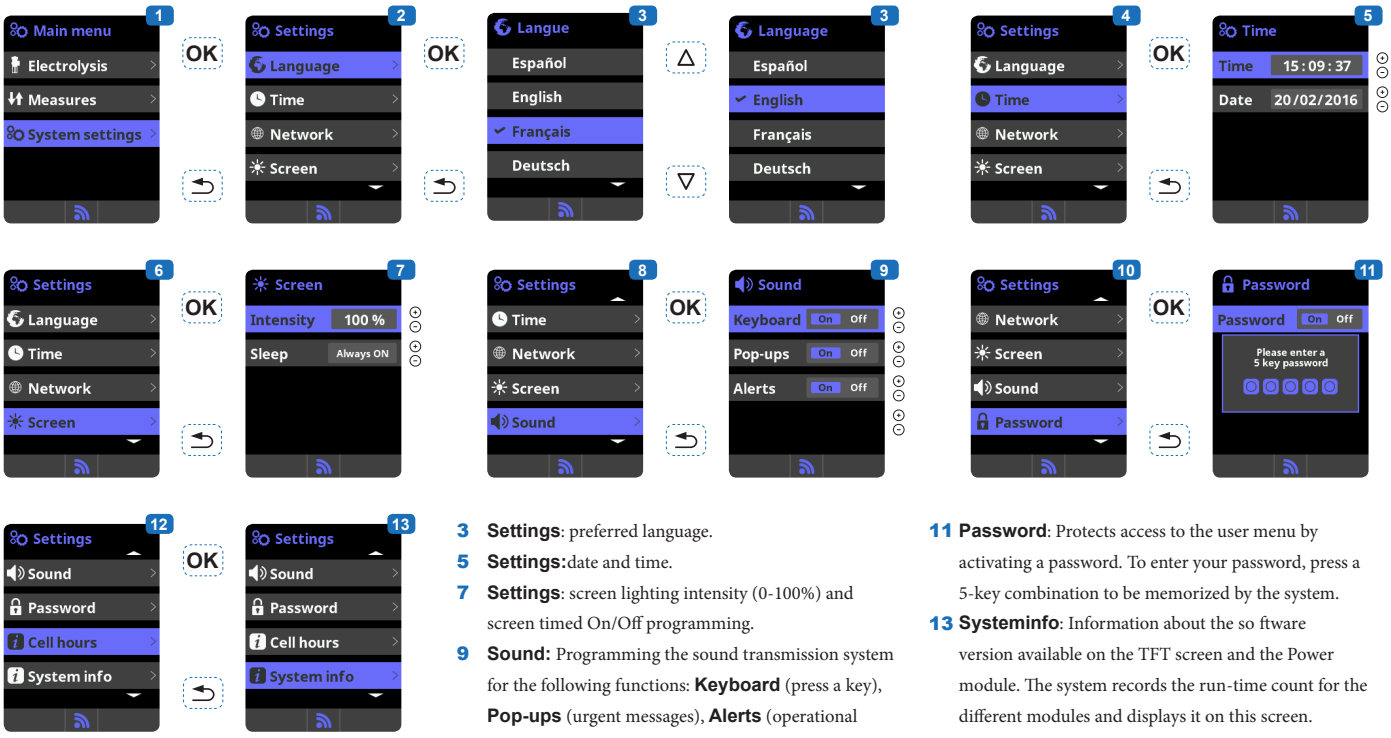
The device is designed to be connected to a protected outlet at all times. The AquaRite LT must not be disconnected unless the pool equipment is undergoing maintenance or the pool is to be closed (wintering).

Assuming that the chemical balance of the water is within the recommended ranges, the device can be started up.

Configuration



Settings



3 **Settings**: preferred language.

5 **Settings:**date and time.

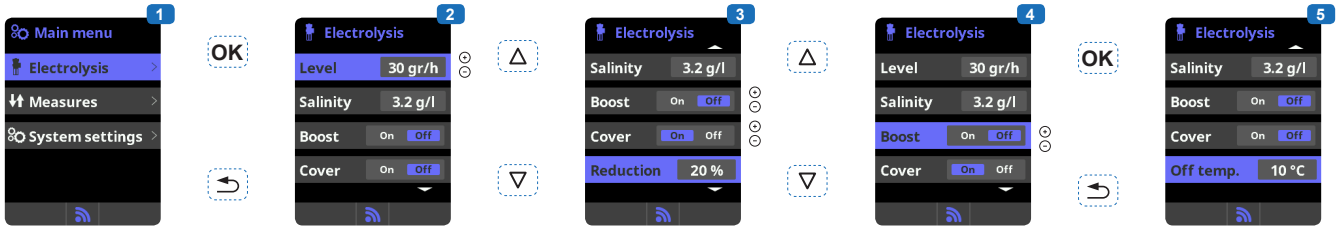
7 **Settings**: screen lighting intensity (0-100%) and screen timed On/Off programming.

9 **Sound:** Programming the sound transmission system for the following functions: **Keyboard** (press a key), **Pop-ups** (urgent messages), **Alerts** (operational alarm), **Filtration** (start of filtration).

11 **Password**: Protects access to the user menu by activating a password. To enter your password, press a 5-key combination to be memorized by the system.

13 **Systeminfo**: Information about the so ftware version available on the TFT screen and the Power module. The system records the run-time count for the different modules and displays it on this screen.

Electrolysis



1 **Electrolysis:**Electrolysis function programming.
2 **Level**: Chlorine production (gr/h) required.
3 **Cover:** Closed cover safety activation.
Reduction:% of chlorine production when the cover is closed (20% by default).

4 **Boost(SuperChlorination)** : Filtration and continuous production of chlorine for 24 hours (maximum production level).
Automatic return to the filtration and production mode programmed after the 24 hours.

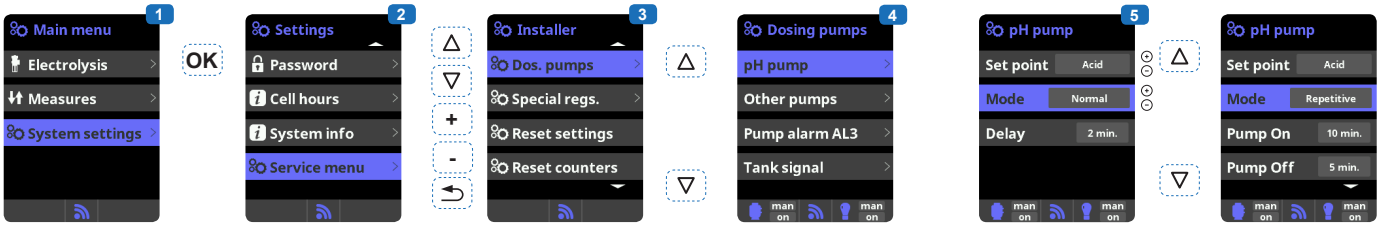
5 **OffTemp:**Sets the temperature beyond which the salt chlorinator will cut off. This temperature must be between 15°C and 10°C.

Saltconcentration



1 **Saltconcentrationmeasurement.**
2 **Enter**in the Salinity menu, use Enter to measure the salt concentration for polarity 1, then for polarity 2. This measurement can only be done manually. It will have to be taken periodically.
3 **Adjustment:**Once the measurement has been taken, you can adjust the salt level manually.
4 **Display:**Once the salt concentration has been measured, it is displayed on the salt chlorination screen and the main screen.

SettingthepHcorrectiontime

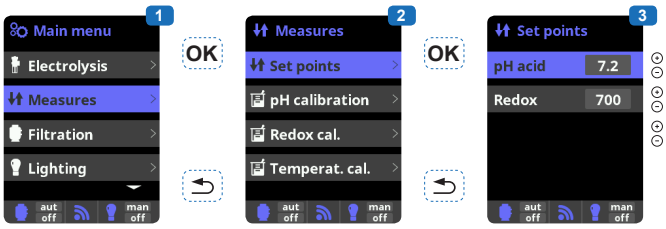


1 **SettingthepHcorrectiontime.**
The chemical parameters of the water must be set manually before the device is started up. If these adjustments are not made in advance, unwanted AL3 alarms may be tripped.
2 **Enter** the password:△ ▽ ⊕ ⊖ ⮌

3 **Select** the "Dos. pumps" menu.
4 Select the "pH pump" menu.
5 **Normalmode:**
-Delay: Time delay between detection of an incorrect value and activation of the dosing pump.
6 **Repetitionmode :**
- Pump On: pH pump operating time .
- Pump Off: pH pump downtime.
- Scaling: Determines the percentage injected by the dosing pump (0% = no injection, 100% = maximum dosing).
- The cycles are repeated until the selected setpoint value is reached.

Caution:if the interval is too long, your pool may not be protected against acid overdoses and your equipment may be irreversibly damaged. Too short an interval maytrip unwanted AL3 alarms.

Measures

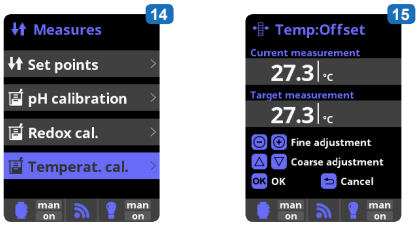


1 **Measures**: Adjustment of set points and measuring probes.
2 **Setpoints** for each measurement.
3 **Setting** the set points.
4 **pHprobecalibration:** Recommended once a month during the pool season.
5 **Calibration** using buffer solutions (liquids models pH7 / pH10 / neutral). Follow the on-screen instructions (fig. 6).
7 **Manualcalibration:** Allows you to set the probes to 1 point (without buffer solution) – recommended only for adjusting small deviations in readings.





8 Without removing the probe from the water, use the + / - keys to adjust the reading to your reference value (photometer or other measuring instrument).



9 **Redoxprobecalibration:** Recommended every two months during the pool season.
10 **Calibration** with reference solution 465 mV. Follow the on-screen instructions (fig. 11).
12 **Manualcalibration:** Allows you to set the probes to 1 point (without solution) – recommended only for adjusting small deviations in readings.
13 Without removing the probe from the water, use the + / - keys to adjust the reading to your reference value (photometer or other measuring instrument).
14 **Temperatureprobecalibration:** Allows you to set the probes to 1 point.
15 Without removing the probe from the water, use the + / - keys to adjust the reading to your reference value (thermometer). The same conditions should apply for measurements.

Settingtheredoxlevel(redoxkitoption)

The redox level tells you the oxidation potential, i.e. the disinfectant capacity of the water.
Setting the redox set point is the last step in setting the AquaRite LT.
To find the optimum redox level for your pool, follow the steps below:
1) Start up the pool filtration system (the salt in the pool must be evenly dissolved).
2) Add chlorine to the swimming pool until it reaches 1 to 1.5 ppm. This level is achieved with (approximately 1 to 1.5 g/m^3 of water).
The pH level must vary between 7.2 and 7.5.
3) After 30 min. Check whether the level of free chlorine in the pool (manual DPD1 test kit) is between 0.8 and 1.0 ppm.
4) Look at the redox value on the screen and enter it as the redox set point.
5) The next day, check the free chlorine levels (manual DPD1 test kit) and the redox level. Increase / reduce the setting, if required.
Remember to check all your water parameters at regular intervals (2-3 months) (see table) and adjust the redox set point according to the steps listed above.

SERVICING

During the first 10-15 days, your system will require more attention:
- Check that the pH remains at the ideal level (7.2 to 7.4).
- If the pH is exceptionally unstable and uses a lot of acid, check the alkalinity (see table).
If the balance is highly unstable, contact your pool installer/builder.

REMEMBER that the system needs a certain amount of time to adapt to your pool and will require additional chemicals during the first 3-5 days.

The pool must be regularly maintained and the skimmer baskets emptied whenever necessary.
Also check that your filter is not clogged.

ADDWATER: It is preferable to add water via the skimmers so that it passes through the cell before entering the pool. Remember to check the salt percentage after adding water.

DOSINGPUMPS: Regularly check the acid level to ensure that the pump does not run dry . The dosing pump must be checked and serviced at regular intervals.

Servicingtheprobe

The probe must be clean and free from oil, chemical deposits and contamination to function properly. As it is in continuous contact with the water in the pool, the probe may need to be cleaned weekly or monthly, depending on the number of bathers and other specific pool characteristics. A slow response, more frequent pH calibration and inconsistent readings indicate that the probe need to be cleaned.
To clean the probe, turn off the power to the AquaRite LT.
Unplug the probe connector from the control box, unscrew the probe and carefully remove it from the chamber. Clean the probe bulb with a soft toothbrush and regular toothpaste.
A household washing-up liquid detergent may also be used to remove any oil.
Rinse with fresh water, replace the Teflon tape on the threads, and reinstall the probe.
If the probe continues to give inconsistent readings or requires excessive calibration after it has been cleaned, it should be replaced.

ServicingandcleaningtheAquaRiteLTcell

Turn off the main power supply to the AquaRite LT before removing the cell. Once it has been removed, examine the inside of the cell for any traces of scale (whitish brittle or flaky deposits) and debris stuck to the plates. If no deposits are visible, reinstall the cell. If deposits are visible, try to remove them with a garden hose. If this method is unsuccessful, use a plastic or wooden tool to remove deposits stuck to plates (do not use a metal tool as this will damage their coating). A build-up of deposits on the cell indicates an exceptionally high concentration of calcium in the pool water. If you cannot find a solution to this situation, you will have to clean the cell at regular intervals. The best way to avoid this problem is to maintain the chemical composition of the water at the recommended concentrations.

Acid washing: This should only be done in severe cases where flushing will not remove most of the deposits. To acid wash, turn off the main power supply to the AquaRite LT. Remove the cell from the piping. In a clean plastic container, make up a solution of water and acetic or phosphoric acid (such as that used to remove scale from a coffee machine). **ALWAYSADDACIDTOWATER–NEVERADDWATER TOACID**. Be sure to wear rubber gloves and protective goggles for this operation. The level of the solution in the container should just reach the top of the cell, so that the wire harness compartment **ISNOT** under water. It may be helpful to coil up the wire before submerging the cell. Allow the cell to soak for a few minutes, then rinse it with a garden hose. If the deposits are still visible, soak and rinse again. Put the cell back and examine it from time to time.

Wintering

The AquaRite LT cell, the flow switch, probe and pool piping run the risk of being damaged if the water freezes. In regions that experience long periods of cold weather, be sure to drain all the water from the pump and filter and from the supply and return pipes before winter. Do not remove the control unit.

Probestorage

The end of the probe must always be in contact with water or a solution of KCl. If it is removed from the measuring chamber, it should be stored in the plastic cap provided (filled with water). If the storage cap has been mislaid, the probe should be stored separately in a small glass or plastic container with its end immersed in water.
The probe must always be in a frost-free environment.

USEONLYGENUINEREPLACEMENTPARTS

TROUBLESHOOTINGGUIDE

Nodisplay
Check that the On / Off switch is on.
Check the connection cable between the display and the control box.
Check that the external 4A fuse (7) is not defective.
Check the power supply: 210-230 V∿ 50 Hz.
If the problem persists, contact your pool installer/builder.

Excessivechlorine
Low electrolytic cell current.
If your pool has an automatic redox control system, check the redox setting.
Check the redox probe and calibrate, if necessary.

Saltchlorinationdoesnotreachtherequiredproductionrate
Check the concentration of salt in the water (3.2 g/l recommended).
Check the condition of the cell (it may be dirty or covered in scale).
Clean the cell according to instructions.
Check the flow switch and clean if necessary.
Check that the cell is not worn (contact your pool installer/builder).

Cellscaledupinunderamonth
Very hard water with high pH and total alkalinity (balance and adjust the pH and total alkalinity of the water).
Check that the system automatically changes polarity (see display).

Impossibletoattainafreechlorinelevelof1ppm
Increase the filtration time.
Increase the chlorination production rate.
Check the concentration of salt in the water (recommandé 3.2 g/l).
Check the level of isocyanuric acid in the pool (see table).
Check that the reactive agents in your test kit are not out of date.
Adjust the chlorine production according to the temperature and the number of pool users.
Adjust the pH to ensure that it is always below 7.8 (7.2 recommended).

AlarmAL3:pHdosingpumpstopped
The maximum time allowed to attain the pH set point has been reached. The pH acid dosing pump is stopped to avoid overdosing and acidifying the water.
Please carry out the following checks to avoid equipment failure:
Check that the can of liquid pH is not empty.
Check whether the pH read on the machine corresponds to the pH in the pool (use a pH analysis kit). Otherwise, please calibrate the pH probe or replace it, if necessary.
Check that the pH pump is running normally.
Check the correction time setting.
To delete this message and reset the dosing, press the "Return" key.

ThescreenindicatesLOW
Check the water balance and salinity.
Check that the cell is free of scale and clean it if necessary.
See “Salt chlorination does not reach the required production rate”.
Water temperature too low.

White flakes in the pool
This occurs when the water is unbalanced and very hard.
Balance the water, check the cell and clean it, if necessary.

ThescreenindicatesFLOW
Check the flow switch.
Check that the filter pump is working.
Check that the pipes are not obstructed (valve closed, basket or strainer full, etc.).
Check 4 A fuse (6).

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