

# ASIN AQUA Salt

2025

THE MOST ADVANCED  
TECHNOLOGY  
FOR CRYSTAL-CLEAR AND SAFE  
WATER IN YOUR POOL



Electrode TE-25



# General safety information

This user manual contains basic information that should be observed during assembly, start-up, operation, and maintenance. Therefore, this user manual must be read by installers and operators prior to assembly and start/up, and must be accessible to every user of this unit. Additionally, all further safety information in this document must be observed. Read and follow all instructions. In order to minimize the danger of injury, do not allow children to use this product. Non-compliance with safety information can result in hazards to persons, the environment and the equipment. Non-compliance with safety information will result in a forfeit of any potential right to damage compensation.

## Insufficient personnel qualification

Hazards in the event of insufficiently qualified personnel, potential consequence: Injury, heavy material damage.

- The system operator must ensure compliance with the required qualification level.
- Any and all work may only be performed by correspondingly qualified personnel.
- Access to the system must be prevented for insufficiently qualified persons, e.g. via access codes and passwords.

## Potential overdosing of chemical agents

Despite ASIN AQUA Salt comprehensive safety functions, it is possible that a probe failure and other errors could lead to an overdosing of chemical agents. Potential consequence: Injury, heavy material damage.

- Design your installation such that uncontrolled dosage is not possible in the event of a probe failure or other errors, and/or such that uncontrolled dosage is recognized and halted before damage is incurred.
- Uncontrolled overdose of chemicals can cause harm to health and property. Even though the device contains a number of security elements can not be ruled out that in case of failure of the measuring probes, or the whole device may result in overdose of chemical agents. Install the equipment so that uncontrolled overdose of chemicals was not possible and that uncontrolled overdose has been detected in time before causing any harm. It is necessary to use chemicals in such quantities that an overdose will not cause dangerous concentration of chemical agents. Do not use chemicals in too large packages or with too high concentration.

## Gaseous chlorine produced from dosing in standing water if dosing outputs are not closed via the filter pump

If the flow switch is stuck or experiences another error, there is a risk of dosing into standing water. Poisonous chlorine gas can be yielded when sodium hypochlorite and pH minus come together.

## Non compliance with informational text

Not observing informational text may lead to hazards. Potential consequence: gravest degree of injury, heavy material damage.

- Read all informational text carefully.
- Cancel the process if you are unable to exclude all potential hazards.

## Use of new functions

Because of the continued development, a ASIN AQUA Salt unit may contain functions, which are not completely described in this version of the user manual. The use of such new or extended functions without a profound and secure understanding by the operator may result in malfunctions and severe problems. Potential consequence: Injury, heavy material damage.

- Make sure to get a profound and secure understanding of a function and relevant boundary conditions, before you start to use it.
- Check for an updated version of the user manual or additional documentation available for the relevant functions: **<http://manuals.asekopool.com>**
- Make use of the integrated help function of the ASIN AQUA Salt to get detailed information on functions and their parameter settings.
- In case it is not be possible to get a profound and secure understanding of a function based on the available documentation, do not use this function.

## Overdosing if pH value is wrong

If disinfection is enabled before the pH value is stable in the ideal range of 6.8 to 7.5, then it may lead to heavy overdosing of chlorine or bromine. Potential consequence: Injury, heavy material damage.

- **Do not start disinfection with chlorine until the pH value is stable in the ideal range between 6.8 and 7.5.**

## Conditions before using

Make sure you have a newest and updated version of the user manual and other documentation for all functions of the unit. Use and read the integrated help features. In case of not understanding the information about certain features of the unit, do not use these features.

## Handling chemicals for pool water treatment

The chemicals used with the ASIN AQUA Salt must be handled in a safe manner to prevent damage or personal harm. Aseko recommends you always use personal protective safety equipment when handling the pH and chlorine agents. Refer to the Materials Safety Data Sheet (MSDS).



## Important notices for proper functioning.

### **WARNING:**

#### **Never mix pH and chlorine agents.**

Always rinse tubes and valves with clean water during maintenance to prevent mixing.

#### **Never use hydrochloric acid (HCl, muriatic acid, spirits of salt, hydronium chloride, chlorane).**

HCl acid is fuming. Using a chemical based on HCl will cause damage to the device.

**Never install the unit in unventilated technical shafts with high humidity, as this can severely damage electronic components, especially the display. Damage caused by high humidity will not be accepted as a warranty claim.** If the ASIN AQUA Salt is in a high-humidity and low-temperature environment (e.g., garden house), keep the device permanently ON. This helps maintain a higher internal temperature, significantly reducing humidity inside the unit. The same applies when storing the unit during winter.

#### **Installation must be protected by a residual current device (RCD).**

#### **The pool and pool technology must be properly grounded.**

#### **CLF Probe Calibration:** Calibration can only be done when the pH is stable in the range of **6.8–7.5**.

After changing the electrolyte, wait at least **1 hour**, but ideally **24 hours**, to allow the signal to stabilize before proceeding with calibration.

#### **Never use stabilizers with cyanuric acid in ASIN AQUA Salt devices.**

Cyanuric acid forms a chlorine-cyanurate complex, which rapidly decreases the disinfecting power of chlorine and makes it impossible to measure with a free chlorine probe. Be aware that some chlorine tablets contain cyanuric acid. Ensure there is no cyanuric acid in your pool.



**MAX POOL VOLUME  
REDOX & CLF  
60 - 90 m<sup>3</sup>  
CLF HYBRID  
up to 250m<sup>3</sup>**

## ASIN AQUA Salt

With ASIN AQUA Salt you are getting the top-class high precision pool water management and disinfection system. Combination of worlds popular water treatment by creating the disinfectants with electrolysis of slightly salted water in the pool (3-4kg salt per 1m<sup>3</sup>), precise measuring by Redox of FREE Chlorine Membrane Probe, digital intelligence and connection to ASEKO Cloud Services makes from ASIN AQUA Salt the best solution for Your pool.

User friendly Smart control functions of ASIN AQUA Salt will make your pool fully automatic and the pool maintenance become just fun.

Online connection to Aseko Cloud Services system Aseko.cloud and smart application Aseko Live will give you the pool status overview from where ever you are connected to internet.

### Hybrid technology

The innovative hybrid technology combines chlorine generation via saltwater electrolysis with liquid chlorine dosing to maintain stable chlorine levels, even during hot, sunny days. Equipped with a FREE Chlorine Membrane Probe for precise and reliable monitoring of free chlorine levels.

Under stable conditions, chlorine levels are regulated exclusively through saltwater electrolysis, supported by precise pH control. When electrolysis alone is insufficient, the system activates a secondary pump to dose liquid chlorine, ensuring consistent water quality.

## Water treatment

### Extra pure certified salt for electrolysis

Essential aid of pool water necessary for electrolytic generation of chlorine and the pool disinfection.

### Chlorine regulation

Accurate measurement by the ASEKO CLF probe or by Redox probe for salt in combination with the control electrolysis algorithm maintain the required value of disinfection. Option to boost chlorine levels by dosing liquid chlorine with Hybrid function.

### pH control and dosing

Accurate measuring by pH probe long-life in combination with the dosing algorithm assures the required water quality using the lowest necessary amount of chemicals. Dosing of pH MINUS or pH PLUS.

**Use of hydrochloric acid is strictly forbidden.**

### Algaecide daily dosing

The daily dosing of an effective polymer biocide protects the water against algae. A great addition to chlorine disinfection.



# Pool technology management

## Filtration Time Control

Daily, automatic start of the filtration system in individually preset periods.

## Water Level - Refilling

System can be programmed to control four different water levels at your pool and switch the water refilling or automatically use the excessive water for filter backwash. Requires optional **level sensor**.

## Filter Backwashing

The system can control the filter backwash and set specific time periods to perform the filter backwash automatically. This function requires an optional **5-way Besgo valve**.

## Smart Heating Control

The system is equipped by intelligent control of preset water temperature. It can switch and control the heating (**solar heating, electrical heating, gas heating, heat exchanger**) by logic of integrated smart heating functions.

## Winter mode

The Winter mode ensures the pool remains at a safe temperature during cold weather conditions.

## Variable speed pump control (VS pump)

In the settings, select the type of your variable speed pump. ASIN AQUA Salt allows to use 4 speeds:

Speed 0 (OFF)

Speed 1 (LOW) for economical filtration outside the filtration TIMER.

Speed 2 (MEDIUM) during filtration TIMER.

Speed 3 (HIGH) during filter backwash.

## Switching BOTTOM / OVERFLOW

At the set times of the TIMER, water flows through the OVERFLOW (the relay is activated).

Outside the set times of the TIMER, water flows through the bottom drain (relay deactivated).

The pool cover does not affect the BOTTOM / OVERFLOW switching.

During filter backwashing, water flows through the BOTTOM DRAIN.

In case of an alarm LEVEL TOO HIGH the flow will be switched to OVERFLOW until the alarm level expires.

This function requires optional **3-way Besgo valve**.

## Pool cover position (relay closed)

If the pool cover is closed during the set TIMER times, the speed of the VS pump will automatically change to 1 (LOW).

## Control by External touch display

ASIN AQUA Salt can be monitored and controlled by external touch display (this function requires an optional **External touch display #12048**).

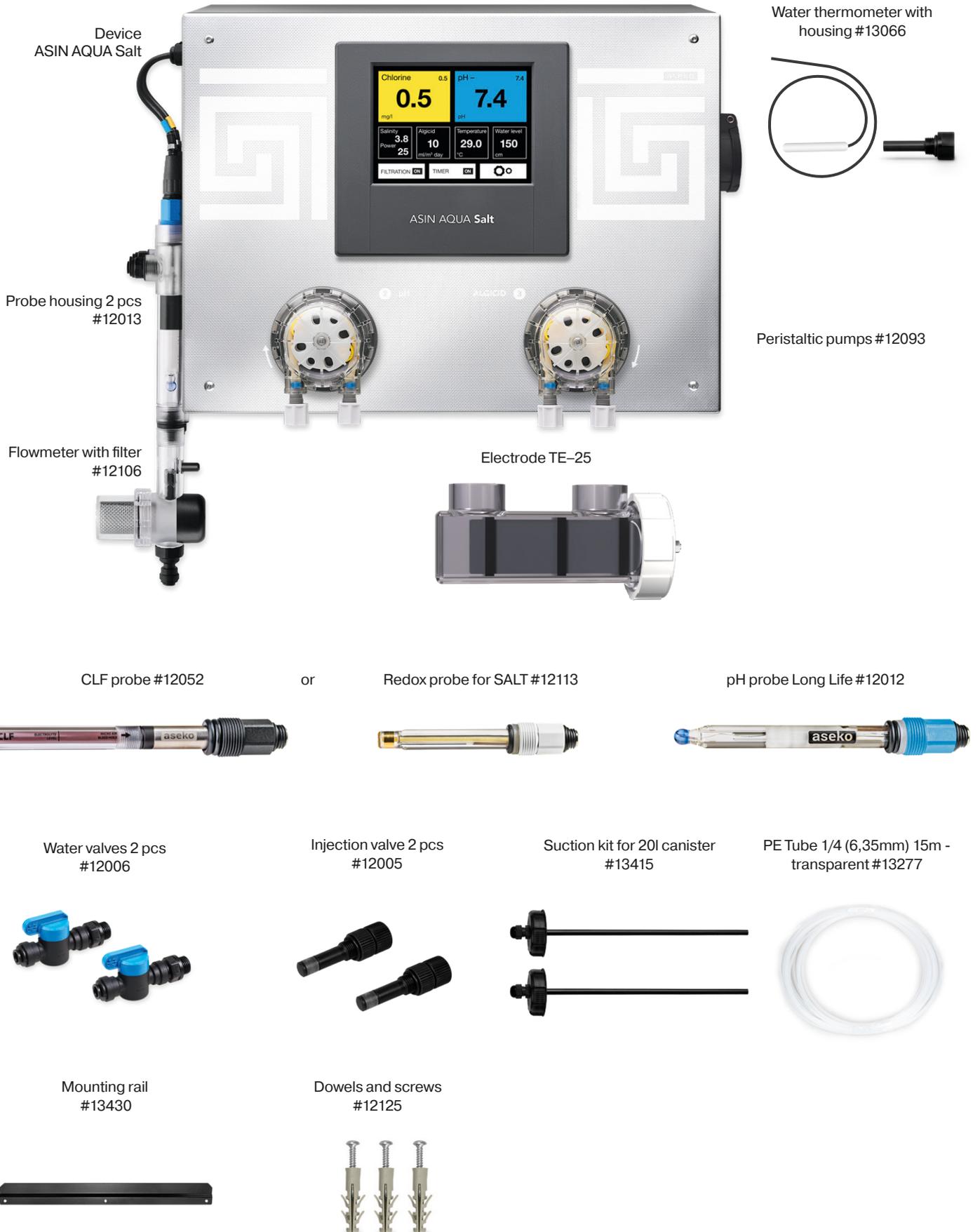
## Programmable relay

ASIN AQUA Salt has one integrated programmable relay to control an extra accessory.

## Solar heating control

ASIN AQUA Salt monitors the temperature of solar panels. When solar panels reach a set threshold, the water is automatically redirected to the solar panels. This function requires an optional **4-way Besgo valve**.

# What do you receive in your box



# Available optional accessories

ASIN Salt Extender  
#13209-25



Pressure-type level sensor  
#12086



External touch display  
#12048



Injection manifold d50/DN63  
4x 1/4" #13395



Coagulation mixer d 50, L 195 mm  
#30001



Photometer  
#13076



pH 7.00 Buffer #12065  
Redox Buffer #12063



BESGO 5-way  
#83103  
BACKWASH



BESGO 3-way  
#83130  
OVER / BOTTOM



BESGO 4-way  
#83150  
SOLAR



Air thermometer  
#13192



# ASEKO original chemical solution

## 20 l or 5 l volume

pH MINUS #12130



pH PLUS #12120



ALGICID #12156



or CHLOR PURE #12156



## Volume 10 kg

SALT PURE 10kg #13344



BALANCER #13039



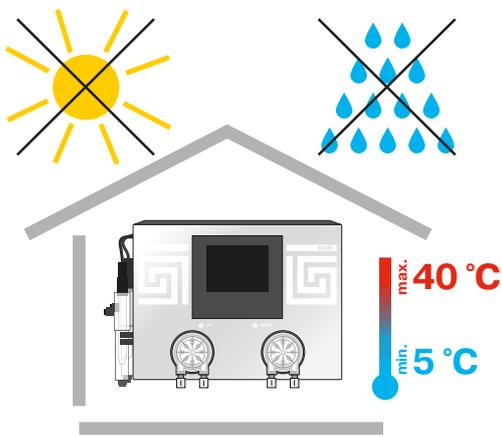
MAGNESIUM #13039



## Bottle 1 kg

SUPER CHLOR #13120





## ASIN AQUA Salt Installation

The ASIN AQUA Salt must be operated in indoor environment with a temperature range of +5 to +40 °C, and the relative humidity must not exceed 70%. Direct sunlight, high humidity, and dust may damage the ASIN AQUA Salt.

- Before installing, ensure that pool water is chemically clean and without dirt.

Install the mounting rail and attach the ASIN AQUA Salt to the wall. Choose a location with a free space of at least 40 cm in all directions, and a height above the floor must not be higher than 150 cm.

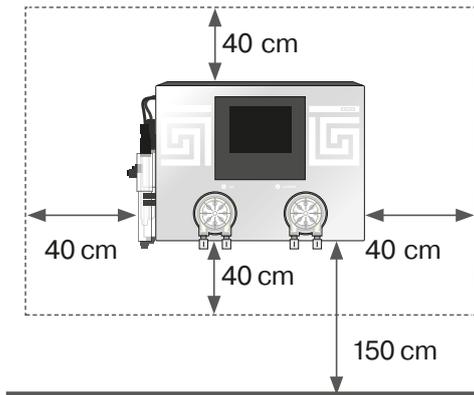
- The vertical distance between ASIN AQUA Salt and the bottom of containers must not exceed 2m.
- The maximum distance from injection valves to peristaltic pumps must not exceed 8m.

**RECOMMENDATION:** Install the ASIN AQUA Salt so that even in case of leakage of chemicals from the pumps or pipes, there is no damage to other equipment or spillage on the floor. Use drip trays.

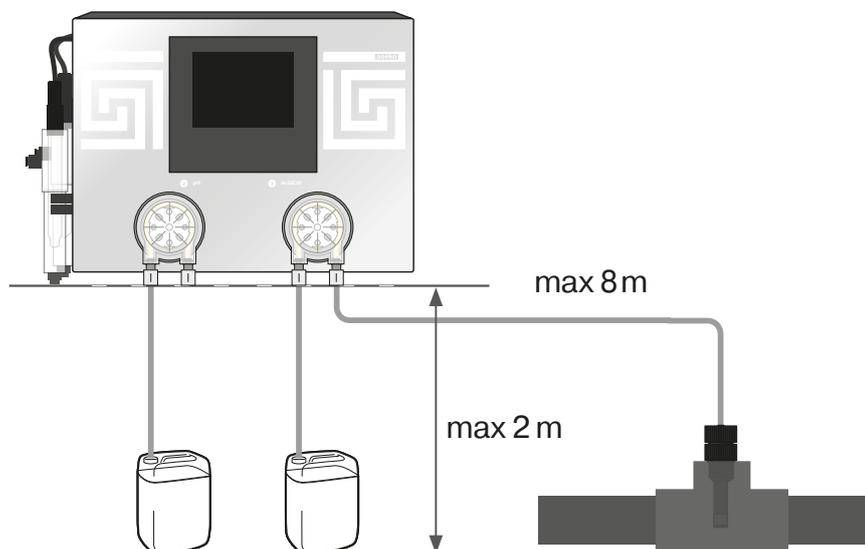
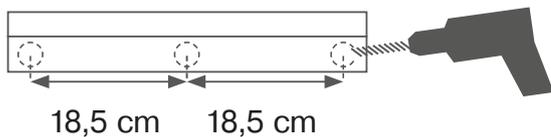
Do not install any other devices under ASIN AQUA Salt.

**WARNING:** High relative humidity reduces the lifespan of electronic components, particularly displays. If the ASIN AQUA Salt is in an environment with high relative humidity and low temperature (such as the installation shaft, or garden house), keep the device permanently ON. The temperature in the device will be higher than the ambient temperature, resulting in a significant reduction of relative humidity within the device.

**This also applies when storing the unit during the winter.**



Wall bracket



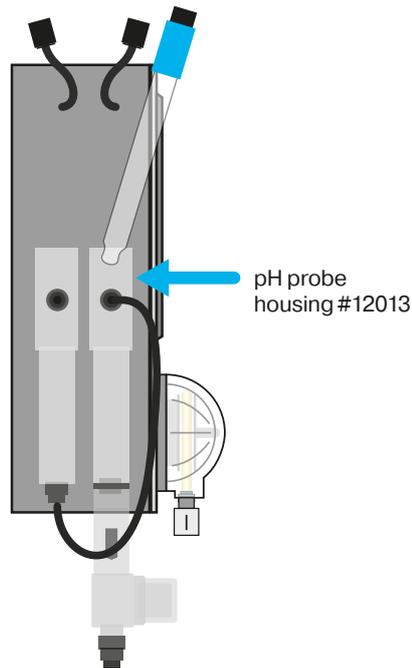
# Installing the Probes

1. Carefully insert the pH, CLF or REDOX probe into the housing.
2. Hand tighten or use the plastic wrench socket for probes.
3. To connect the probe tighten the connector on the probe connection cable.

After probes have been inserted, slightly tightened and connectors have been connected, ASIN AQUA is ready for connection to the water system of your pool.

**WARNING:** Only hand tighten the probes or use the plastic wrench socket for probes. Do not use pliers or steel wrench.

## Step 1: Installation of pH probe



pH Long Life probe  
#12012

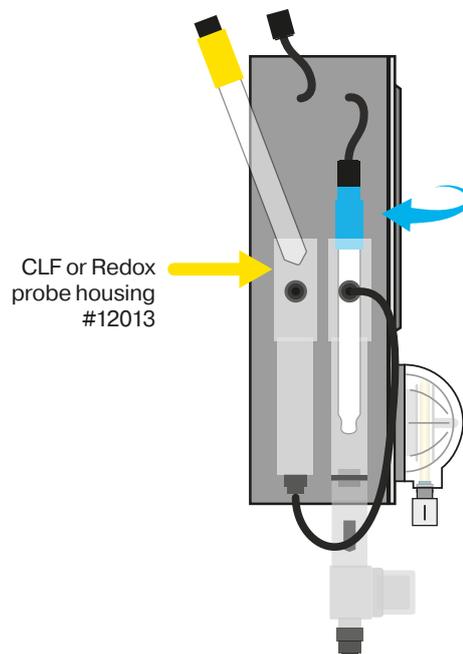


## Step 2: Installation of CLF or Redox probe

CLF probe  
#12052



Redox probe  
for salt #12016

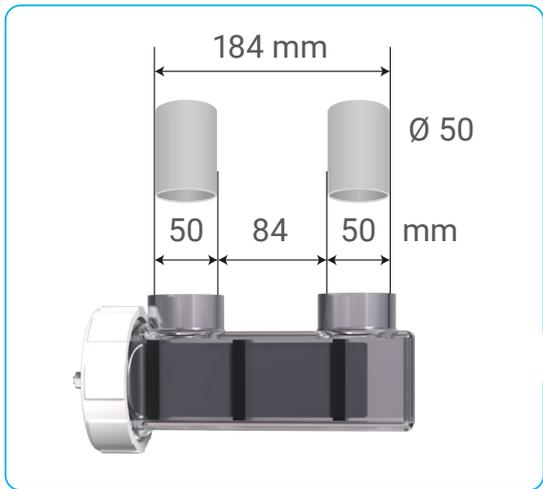


Wrench socket for  
probes #13046



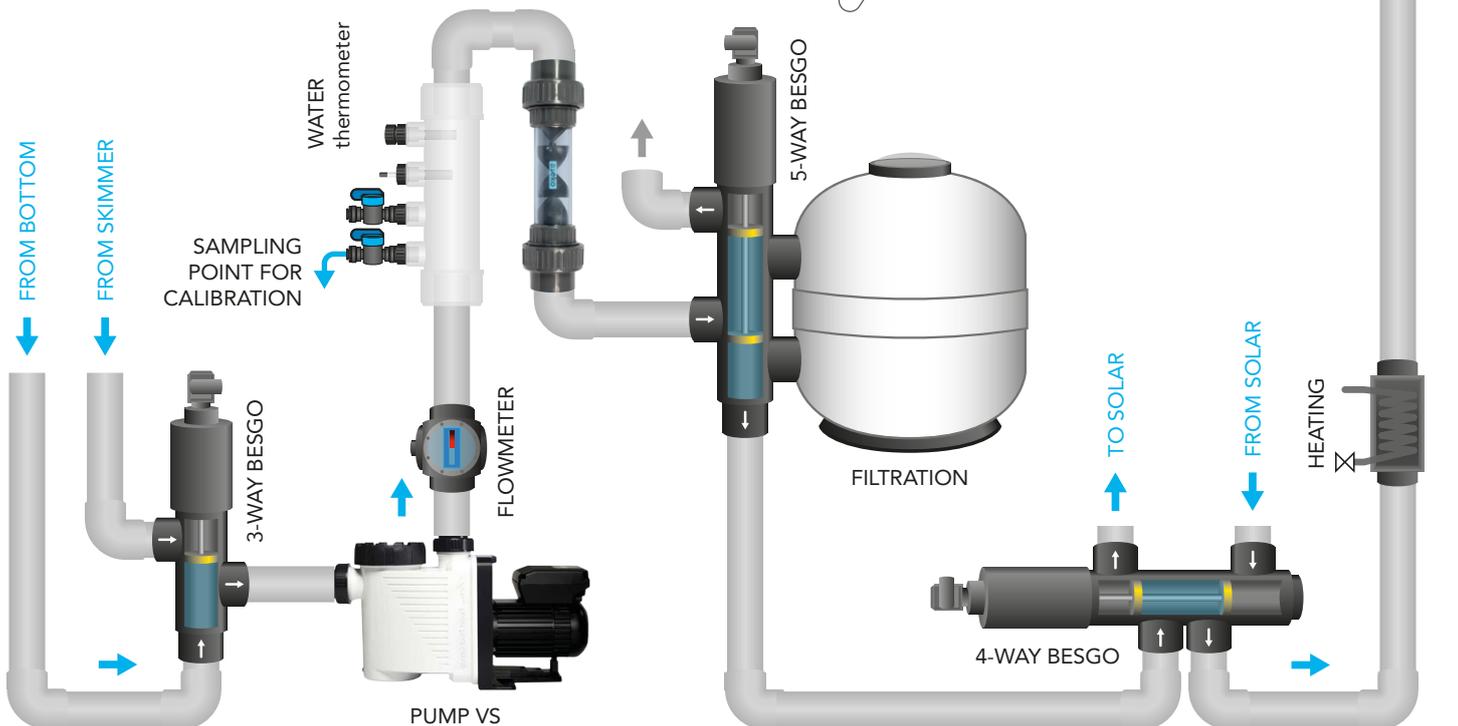
# Connection of electrode TE-25

Electronic flowdetector with filter and salinity sensor



Gluing

13 mm  
 20 Nm



## Connection of electrode TE-25

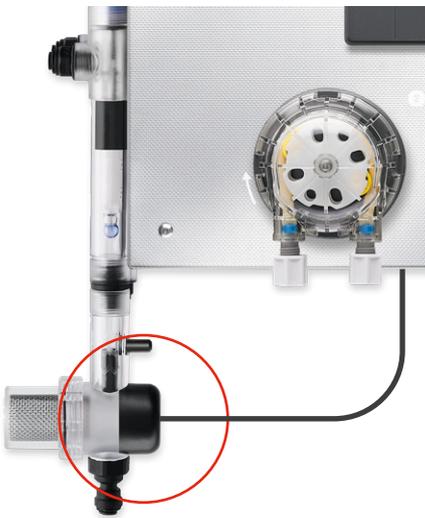
Electrode TE-25



One of the key components of the ASIN AQUA Salt device is the titanium electrode TE-25 with a ruthenium-iridium surface, which enables electrolysis of pool water and chlorine generation.

Place the electrode in the filtration circuit branch according to the diagram on the previous page. Insert a valve between the inlet and outlet pipes of the branch to allow circulation in case of electrode shutdown and to close the branch if needed. The recommended position for the electrode is at site 10. It is necessary to place the electrode so that all titanium plates are evenly submerged in water. Once the branch is connected to the system, you can connect the electrode power cables from the ASIN AQUA Salt unit.

**RECOMMENDATION:** Install the electrode upside down to ensure that the electrode will be during its operation fully flooded.

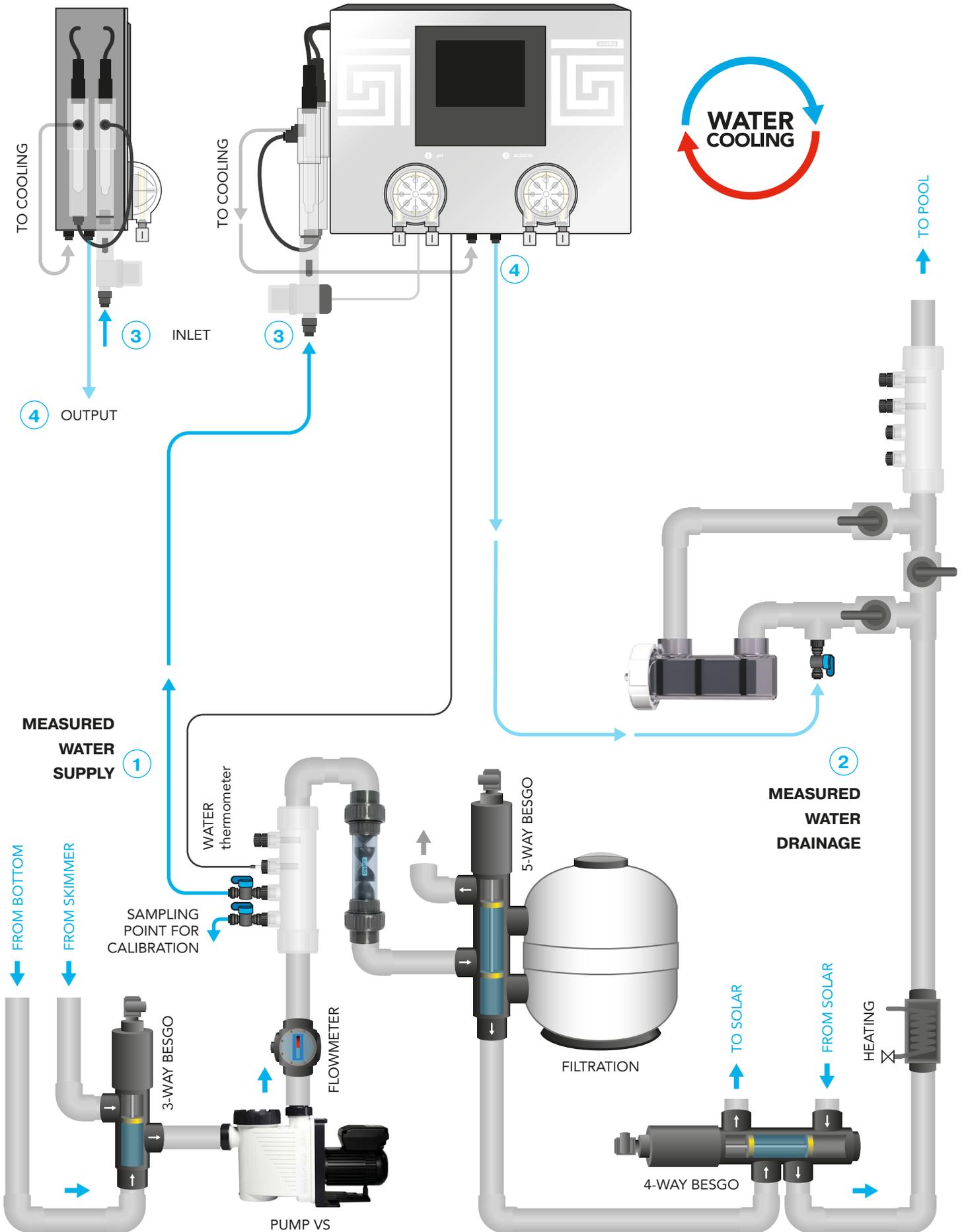


Salinity measuring unit

## Salinity measuring unit

The salinity sensor is part of the measuring water filter.

# Pool Water Connection



# Pool Water Connection

Screw the **measuring water valve** in the glue head D50 with thread G1/4" #12134, glued to the T-piece. **Tighten the measuring water valve into the head by hands only. Do not use pliers or other tools.**

- 1 Connect the **MEASURED WATER SUPPLY** to the pipe **behind the pump, and before the filter and before the electrode.**
- 2 Connect the **MEASURED WATER DRAINAGE** to the pipe behind the filter and heating, ideally into the electrode bypass. This ensures that when the bypass is closed, no measured water flow is detected, and electrolysis automatically shuts off.

To connect the measured water to the ASIN AQUA Salt use PE tube 1/4 "(6.35 mm) #13277, which is part of the packaging.

## WARNING

Cut the PE tube at an angle of 90° to ensure tight joints. The cut must be clean. Use special pliers #13325 to cut plastic tubes. Do not use common scissors or knives!

The measured water is easily connected to ASIN AQUA Salt using the **Speedfit** push-in fitting.

**CONNECTION** Push the connecting pipe into the Speedfit fitting and pull out the hose to secure.

**DISCONNECT** push and hold the Speedfit round collet and pull out the connecting pipe.

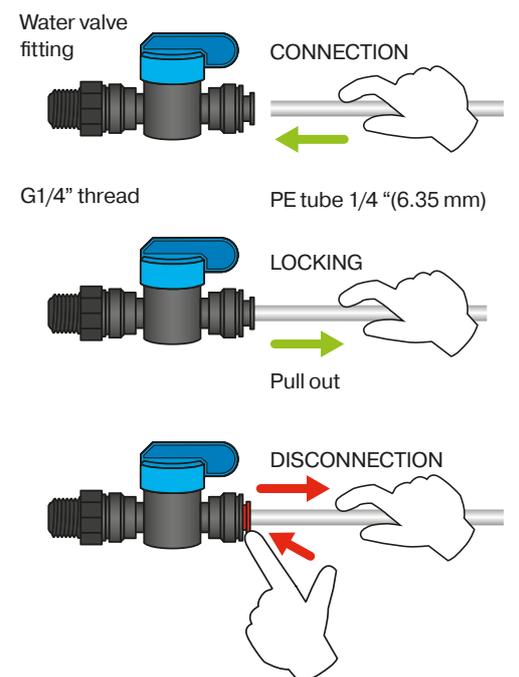
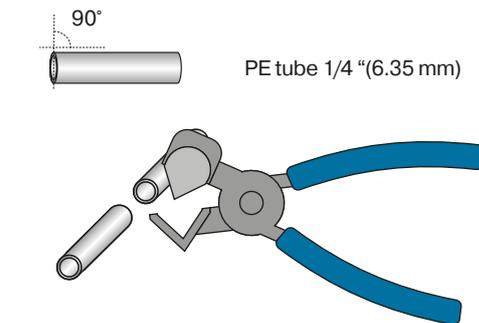
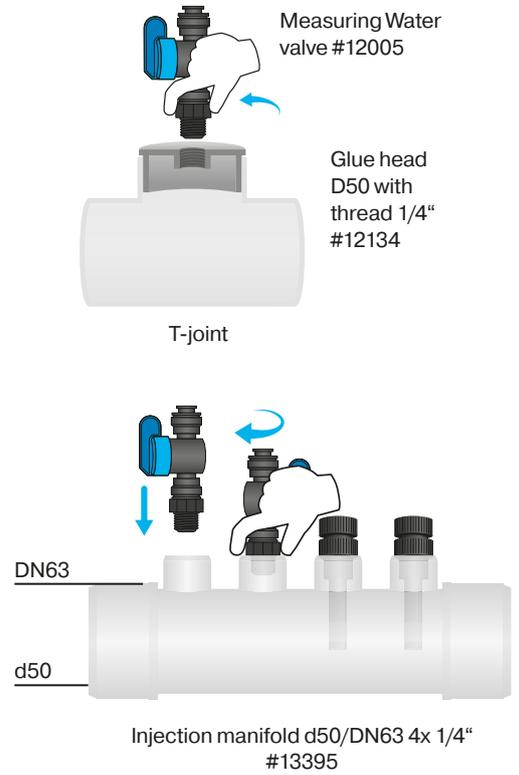
- 3 **INLET** of the measured water to the ASIN AQUA Salt  
Connect the tube to the bottom Speedfit of the measured water filter.
- 4 **OUTPUT** of the measured water from ASIN AQUA Salt  
Connect the tube to the Speedfit on the bottom of the unit from the water cooling.

Once connected, ASIN AQUA Salt is ready to measure disinfectant content and pH value in your pool.

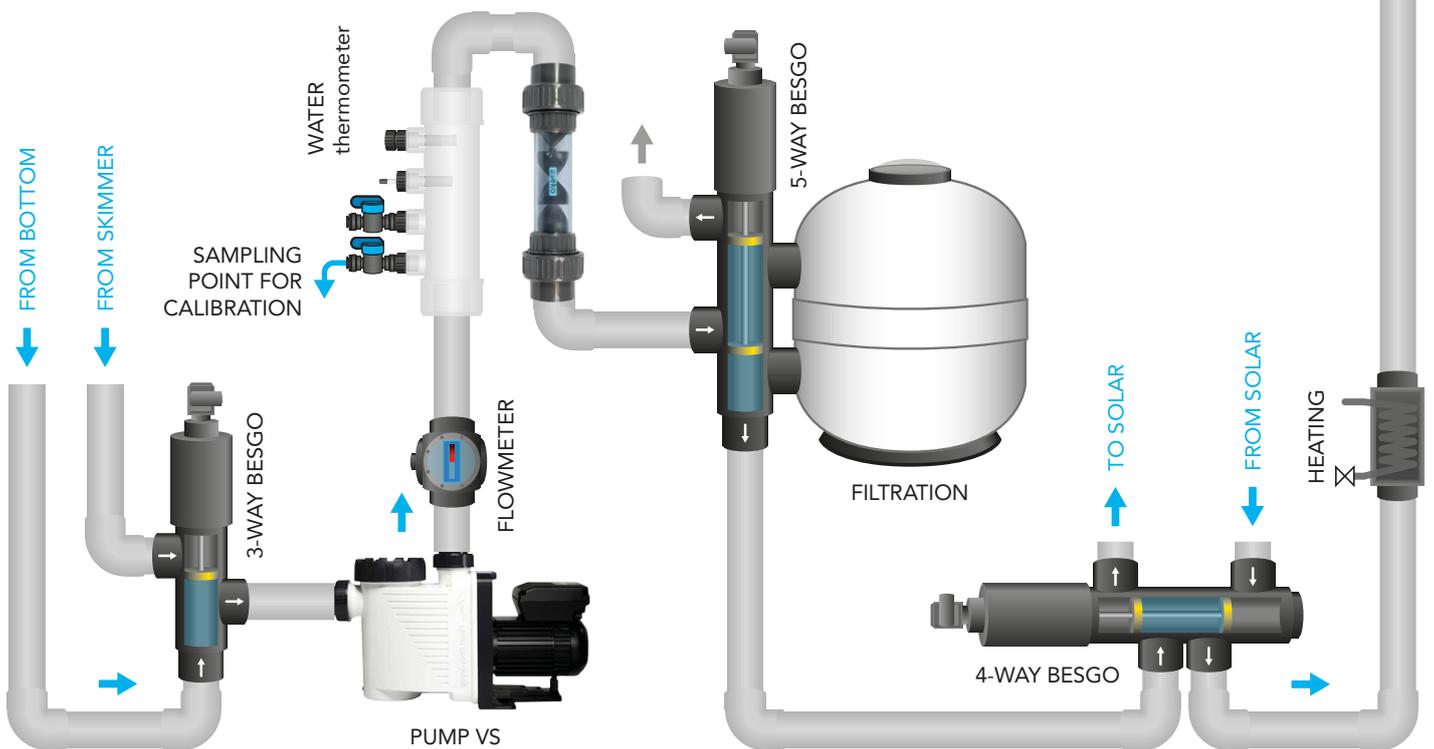
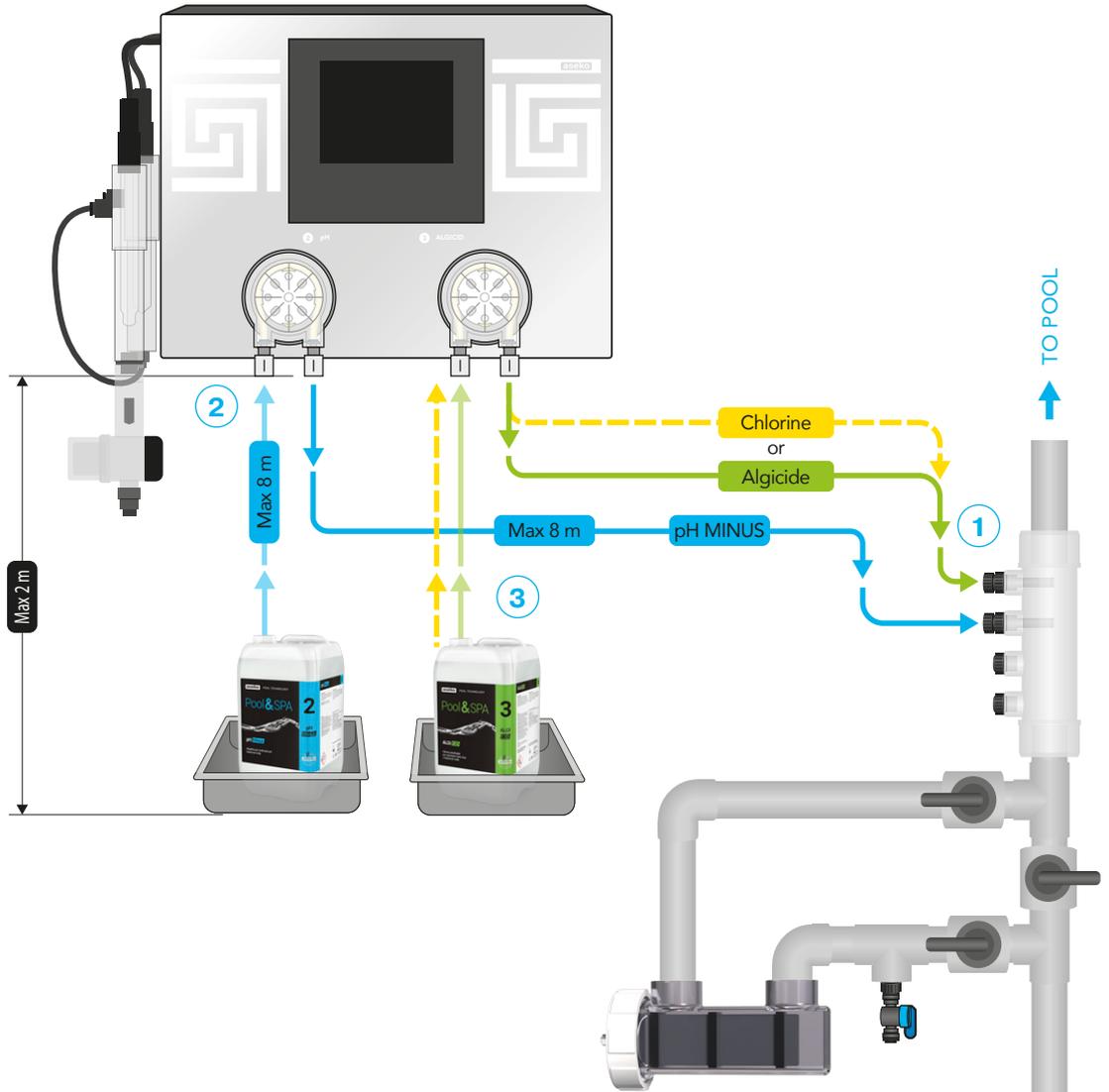
## WARNING

**Chlorine production must be stopped if water is not flowing through the electrode.**

**If you install the electrode on a bypass, it is necessary to connect the outlet of the measured water to the bypass in front of the electrode.** Connecting the measured water outlet before the electrode in the bypass will cause a "No Flow to Probes" warning if the bypass is clogged, which stops the chlorine production



# Pool Chemicals Connection



# Pool Chemicals Connection

Screw the **injection valve** in the glue head D50 with thread G1 / 4 " #12134, glued to the T-piece. **Tighten the injection valve into the head by hands only. Do not use pliers or other tools.**

- 1 Connect the **ALGICIDE or CHLOR PURE and pH INJECTION VALVE** to the pipe **behind the filter and behind the MEASURED WATER DRAINAGE**. Connect injection valves in this order to prevent formation of lime scale.

To connect reagents from cans to the ASIN AQUA Salt and from the ASIN AQUA Salt to the injection valves use PE Tube 1/4 "(6.35 mm) #13277, which is part of the packaging.

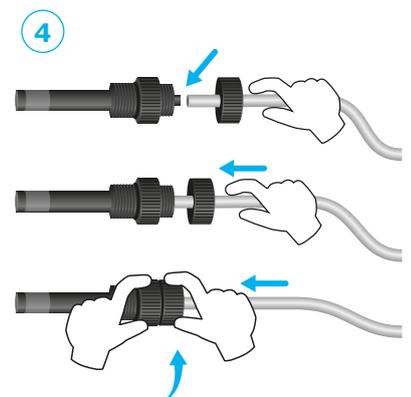
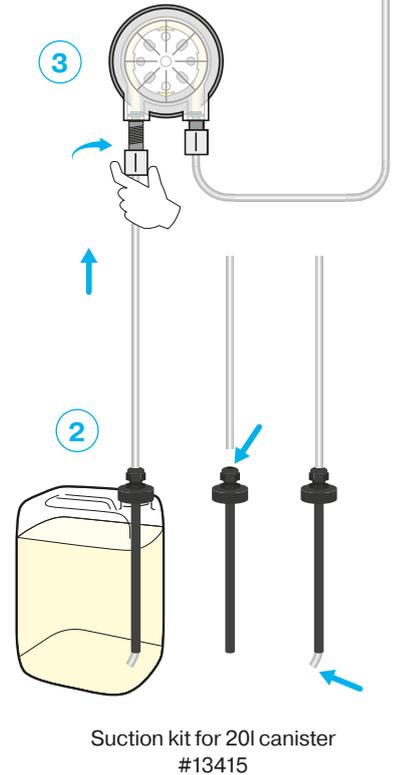
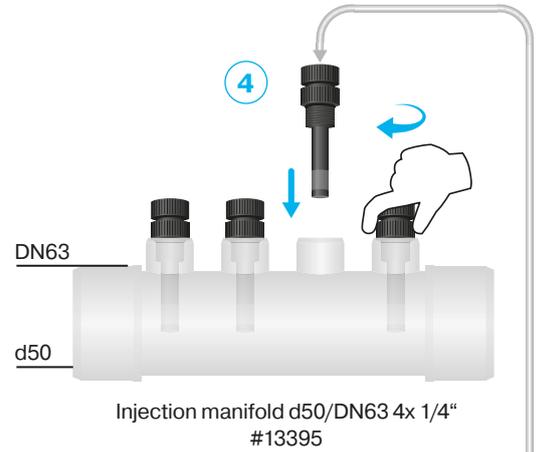
## WARNING

Cut the PE tube at an angle of 90 ° to ensure tight joints. The cut must be clean. Use special pliers #13325 to cut plastic tubes. Do not use common scissors or knives!

- 2 **CANISTER CONNECTION** Drill 6.35 mm and 1 mm diameter holes in the can's cap. Pass the tube through the hole in the cap so that it reaches the bottom of the can. Tighten the screw on the top of the canister.
- 3 **PUMP CONNECTION** Connect the can with the left (suction) connector of the pump using a PE tube from the can.
- 4 **INJECTION VALVE CONNECTION** Pass the tube through the injection valve nut, connect the tube onto the injection valve and tighten the nut firmly by hand. Connect the tube from injection valve with the right (discharge) connector of the pump.

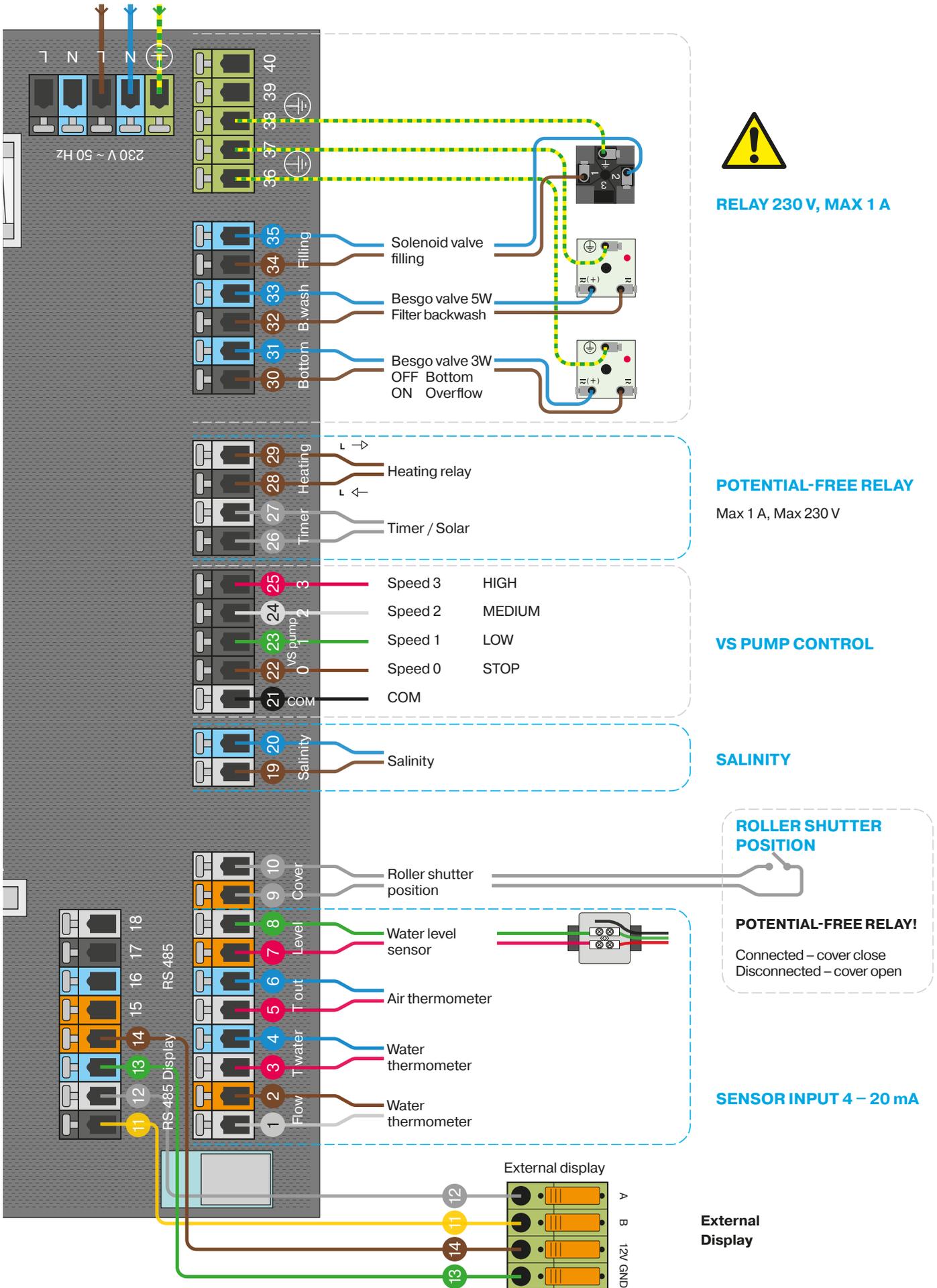
## WARNING

**NEVER CONNECT pH minus reagent to disinfection pump or disinfectant to pH pump!** In the case of a cross-connection, after ten doses ASIN AQUA Salt displays an error message. Repair the piping installation and then you can continue to operate your ASIN AQUA Salt.



**POWER SUPPLY**  
230 V ~ 50 Hz

# Accessories Connection



**RELAY 230 V, MAX 1 A**

**POTENTIAL-FREE RELAY**

Max 1 A, Max 230 V

**VS PUMP CONTROL**

**SALINITY**

**ROLLER SHUTTER POSITION**

**POTENTIAL-FREE RELAY!**

Connected – cover close  
Disconnected – cover open

**SENSOR INPUT 4 – 20 mA**

**External Display**

# VS Pump connection

## WARNING

Always check the connection according to the current user manual of your pump manufacturer.

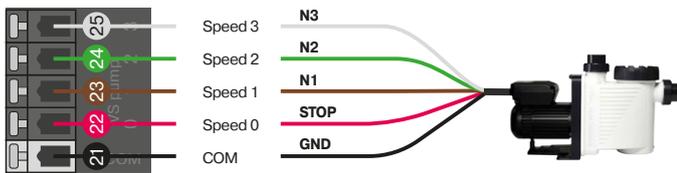
TYP A					TYP B					TYP C				
COM	S1	S2	S3	STOP	COM	S1	S2	S3	S4	COM	S1	S2	S3	STOP
n1	ON	OFF	OFF	OFF	n1	ON	OFF	OFF	OFF	n1	ON	OFF	OFF	OFF
n2	OFF	ON	OFF	OFF	n2	OFF	ON	OFF	OFF	n2	OFF	ON	OFF	OFF
n3	OFF	OFF	ON	OFF	n3	OFF	OFF	ON	OFF	n3	OFF	OFF	ON	OFF
S	OFF	OFF	OFF	ON	S	OFF	OFF	OFF	ON	S	ON	ON	ON	OFF

Speed

Relay status

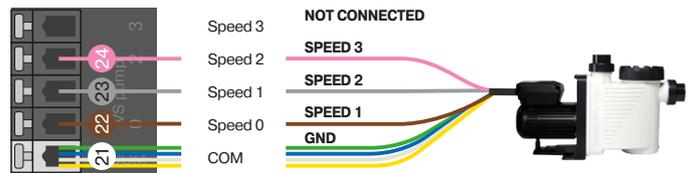
## TYP A

### SPECK



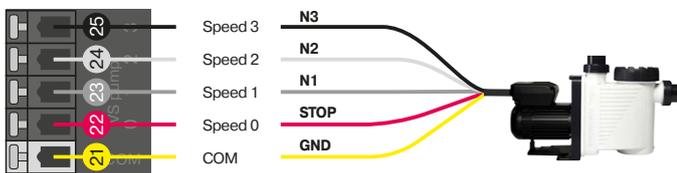
### TYP A

### UWE EO PM



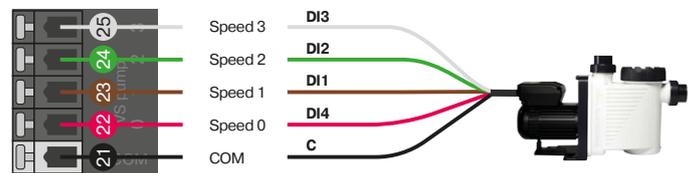
### TYP A

### INVERTER POOL PUMP



### TYP A

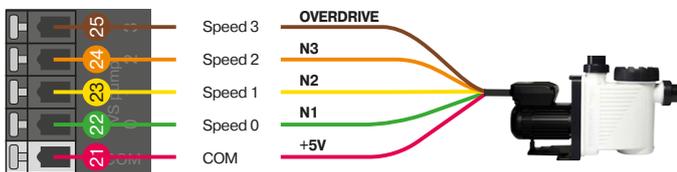
### HAYWARD KS Evo VS



### TYP A

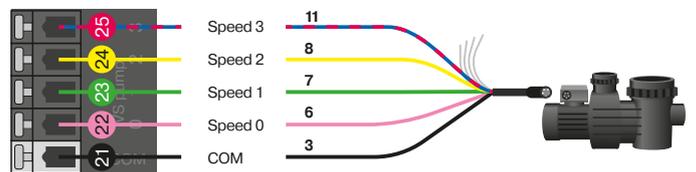
## TYP B

### PENTAIR



### TYP B

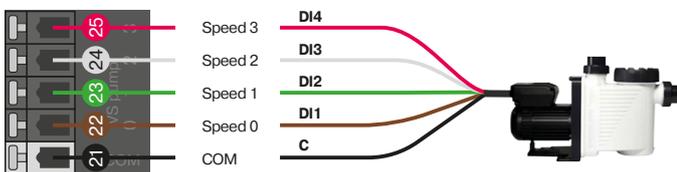
### DAB E.SWIM - E.PRO



### TYP B

## TYP C

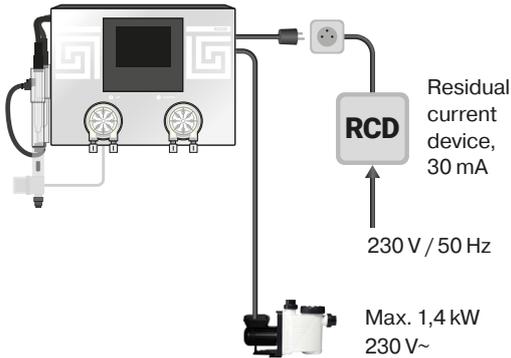
### HAYWARD (older type)



### TYP C



**Installation must be protected by a residual current device (RCD).**



## Power Supply

### Connection to the mains:

1. Leave the mains switch in the off position.
2. Connect the filtering device to the ASIN AQUA Salt switched socket outlet (filtration power supply - max. 1.4 kW / 230 VAC).
3. Connect the 230 V / 50 Hz mains cable to ASIN AQUA Salt (on the right side). The mains socket outlet must be protected by a residual current device (RCD).
4. Change the mains switch over to the on position.

After Device has been switched on, the display will come on and the ASIN AQUA Salt starting screen will appear.

### Disconnection from the mains:

1. Change the mains switch over to the off position.
2. Disconnect the ASIN AQUA Salt mains cable from the 230 V / 50 Hz socket outlet.
3. Disconnect the filtering unit mains cable from ASIN AQUA Salt.

**WARNING:** If Device is used in the manner different from that specified by the manufacturer, protection provided by Device may get damaged.

Power supply	230 V AC 50 – 60 Hz
Power consumption out of pump	190 VA
Total power consumption	1840 VA
Unit fuse	T8 A
Inner electronic fuse (F3)	T1 A
Supply of external sensors fuse (F1)	T800 mA
Ingress protection	IP30
Over-voltage category	II
Operating temperature	+5 to + 40°C
Relay output contacts	max. 230V/1A voltage free
Thermometer	max difference +/- 1,5°C
Chlorine processing power (salt 4g/l)	TE-25, 25 g Cl/ h
Filter pump power supply	1,4 kW , 230 V AC
Power of dosing pumps	60 ml/min. by overpressure 1,5 bar
(pH, Algacide)	1,5 bar
Measuring water max pressure	1,5 bar
Dimensions	450 x 330 x 150 mm
Weight	10 Kg

# Installation Test

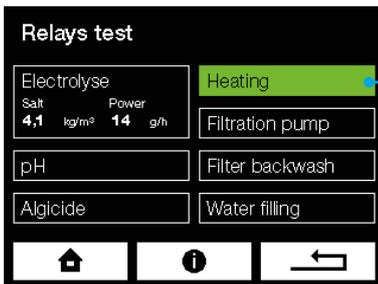
**WARNING:** Any obstacles, bubbles or leaks in the connecting tube will prevent ASIN AQUA Salt from correct operating. The clear plastic tube allows you to monitor flow of liquid to the injecting valves.

Before commencing the operation, test ASIN AQUA Salt installation.

**Most problems result from incorrect installation.**

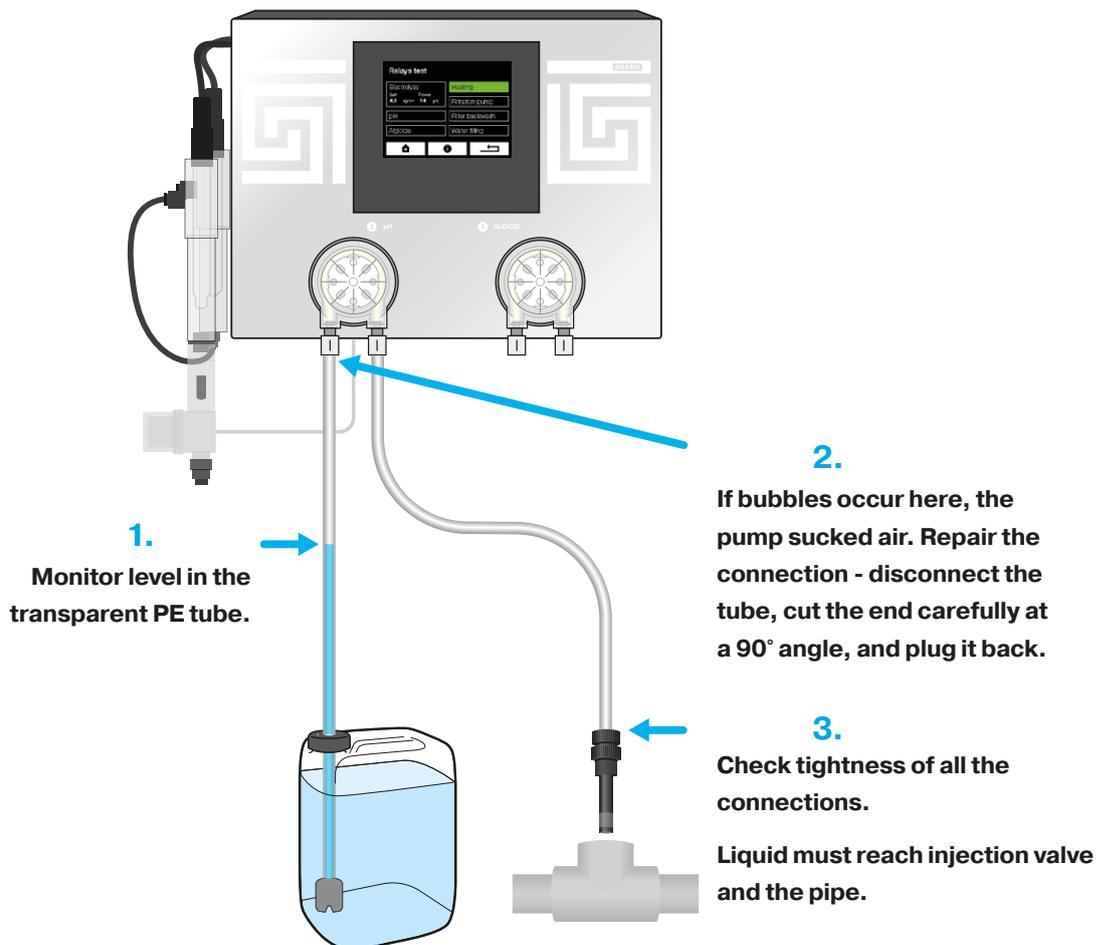
## Test

In the “Relay Test” menu, start pumps one by one and while they are running, check tightness of all the PE tube connections. Check the injecting valves for blockage and air bubbles in the PE tube.



Press to **TURN ON (GREEN)** and press again to **TURN OFF**.

**DON'T FORGET!** After you complete the test, stop all accessories in the menu. Do not dose in this step!

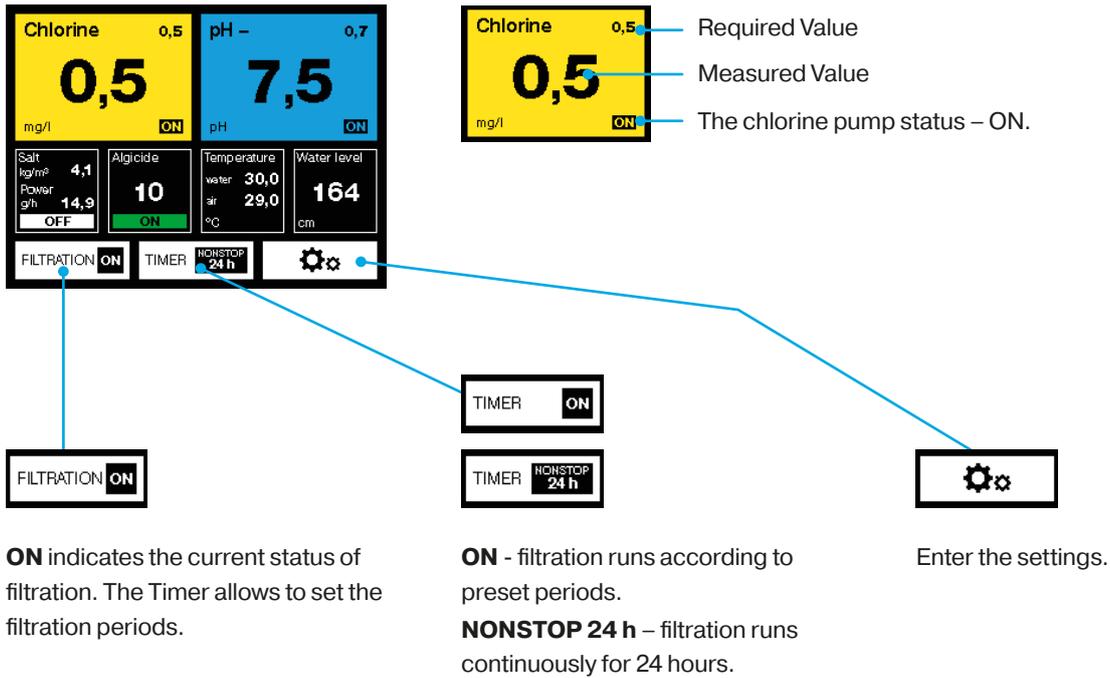


# Touch screen description

## Home Screen

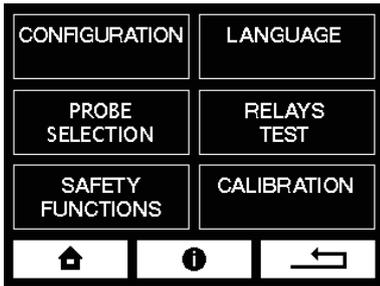
The home screen displays measured values, required values and status information.

E.g. click on the **Chlorine** to enter the setting of the required chlorine value.



Manual control allows to:

- switch filtration on/off** independently to preset filtration periods.
- start filter washing** independently to preset backwash periods.



## Settings



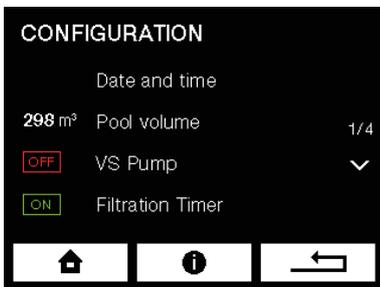
Back to the home screen.



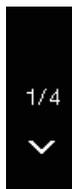
More information for current screen.



Back to the previous screen.



## Movement through Menu



Movement in menu to the previous page.

Indicator of the current page and the total number of pages.

Movement in menu to the next page.



ON - function is switched on



OFF - function is switched off



## Value Settings



Decrease the value.



Increase the value.

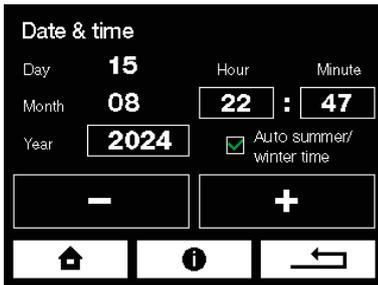


Save the set value

# Configuration

## Date and Time

To ensure the correct function of timers, set the current date and time.



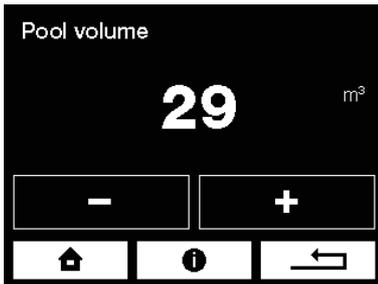
## Pool Volume

To ensure the correct function of ASIN AQUA Salt, enter the correct volume of your pool. Calculate your pool volume in m<sup>3</sup>:

Length (L) times width (W) times depth (D) is volume (V) - (L × W × D = V).

Enter the value using + and - buttons.

**WARNING:** The pool volume has effect on the maximum safe dose, enter the value correctly.



## Filtration Timer

Filtration timer can be set to NONSTOP 24 hours operation, or to one or two filtration periods.

### Between periods (requires VS pump)

ASIN AQUA Salt allows you to control the variable speed circulation pumps. The variable speed pump runs at speed 2 during filtration periods. Outside of filtration periods, when the standard circulation pump is off, the variable speed pump can run at speed 1 or be OFF (depending on its setting).



## Automatic Filter Washing

The ASIN AQUA Salt technology is in particular based on the high efficiency of filtering and removing even the finest impurities, it is necessary to **wash the filter on a regular basis**. The automatic filter backwashing function ensures the filter washing on a regular basis in the preselected intervals.

**To enable this function, it is necessary to use the automatic 5-way BESGO valve.** The ASIN AQUA Salt controls the BESGO valve with relay output.

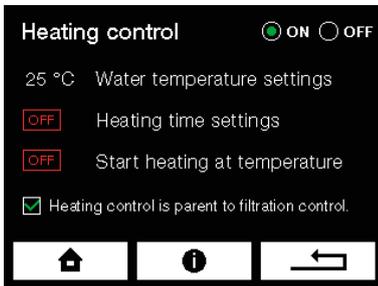
When the relay switches ON, the BESGO valve switches to the required position with the pressure of water or air and performs the Filter backwash. See the BESGO manual.



## Smart Heating

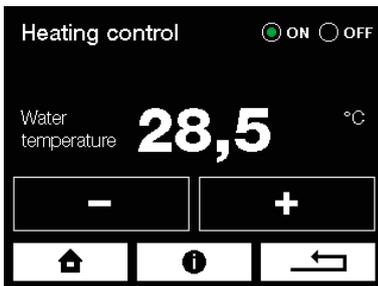
### Water Temperature Measurement and Heating Control

The water thermometer should be installed in the inlet pipe coming from the pool. Never install it behind the heat exchanger. When the temperature drops below the required value, the relay switches ON your heat source (heat pump, electric heating, gas boiler circulating pump).



### Heating Control Function Takes Priority over Filtration Control

If you select the option heating control is parent to filtration control, then the water temperature takes priority over the filtration timer. The heating as well as the circulating pump will be running even outside of the set filtration periods. The pump and the heating stop only when the required temperature is reached.



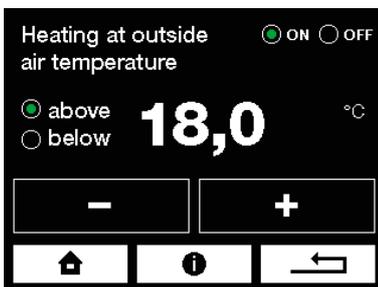
### Heating Time settings

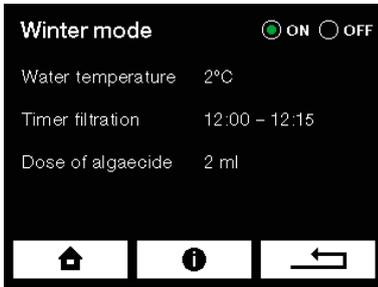
This function allows to set a time for which the heating will be in operation. This is particularly useful for switching on the heat pumps which have a higher efficiency during the day when outdoor temperature is higher. Eventually, turn off the heat pump during a specific time to reduce the noise from the heat pump.



### Heating at Outdoor Temperature (above or below)

This feature allows you to set the outdoor air temperature, at which or below which ASIN AQUA Salt starts heating. To use this feature, an outdoor air thermometer must be installed. This function is used to optimize the effectiveness of air heat pumps, which have higher efficiency at higher temperatures.





**WARNING: DO NOT USE HEAT PUMP IN THE WINTER MODE!**

**Winter mode does not protect the heat pump from freezing.**

**Disconnect the heat pump and winterize it separately. Follow the heat pump manufacturer's manual.**

## Winter mode

Activating this function set the device into the special Winter mode. This mode prevents the pool water from freezing and keeps the water clean with dosing of algaeicide.

**In the Winter mode following function are deactivated:** chlorine dosing, pH dosing, flocculant dosing, water filling, filter backwash. **Water flow is set to the bottom drain.**

Every day the filtration pump runs in preset filtration timer.

Outside of the filtration timer the filtration pump remains OFF but is automatically activated for the period of 15 minutes when the outdoor temperature drops below 0°C.

- If, after the period of 15 minutes, the water temperature is under the set temperature of 2°C, the filtration pump stays ON, and the heating is activated until the water temperature exceeds the set temperature.
- If, after the period of 15 minutes, the water temperature is higher than set 2°C, the circulation pump is turned OFF.

If the outdoor temperature stays below 0°C this cycle is repeated every 6 hours.

When using the Winter mode without the **outdoor air thermometer**, the system acts as it always detects 0°C outdoor temperature.

**Warning:** Winter mode must not be used with the heat pump. The entire system is programmed that it does not protect the heat pump against freezing in the event of severe frosts. The winter mode can only be used in fully inground (thermally isolated) pools with filtration technology located in a non-freezing environment. The winter mode cannot be used for above-ground pools

## Level sensor - Level Monitoring and Automatic Refilling

The water level is monitored using a pressure-type level sensor, which is easy installed by inserting the probe into the buffer tank or the blind nozzle of skimmer pools. ASIN AQUA Salt monitors four different levels, which can be set in centimeters in the water level meter menu.

### Setting:

#### High level ALARM - too much water in buffer tank

After this level is reached, following actions may start:

1. If the automatic filter backwash is enabled, one backwash cycle starts and drains the waste water.
2. If the automatic filter backwash is not enabled, the relay 19 switches on (filter backwash) for the period of time until level is OK. The second circulating pump or automatic drain valve can be connected to this relay.

#### Refilling OFF - required level

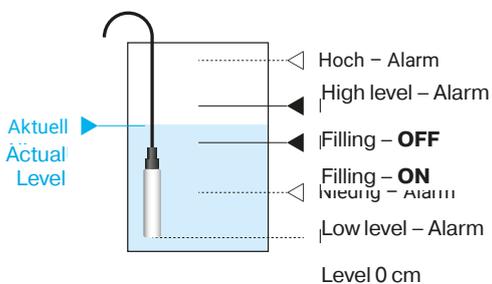
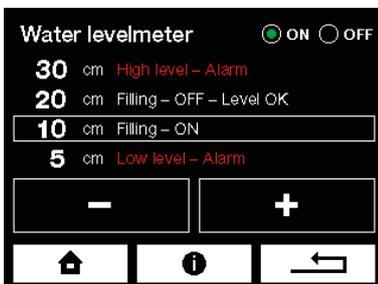
Refilling stops

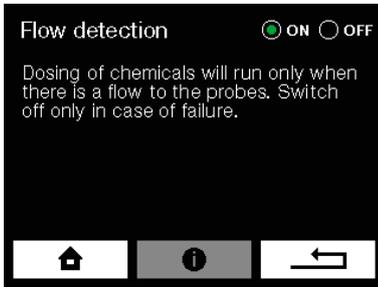
#### Refilling ON - level at which refilling starts

Refilling starts after if the water level stay permanently at least for 10 seconds below this value (in order to prevent oscillating)

#### Low level ALARM

Circulation (filtration) pump shuts off

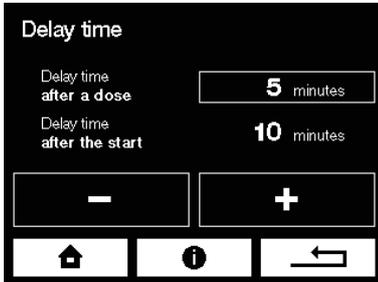




## Flow detection

The flow detector detects flow of measured water. Dosing of chemicals will take action only if the water flow to probes is detected.

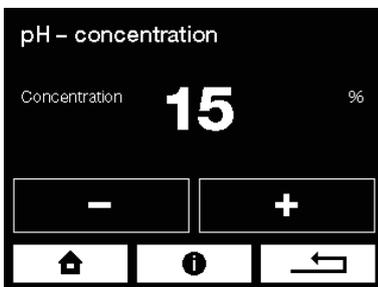
**Warning:** Only switch off the flow detector in case of a failure.



## Delay

**Delay time after dose** is time for which ASIN AQUA Salt does not dose and wait for the response of probes. The average response time is 4 to 10 min, at SPA 1 to 10 min.

**Delay time after start** of the filtration pump (upon timer switching on) is time after start for which ASIN AQUA Salt does not take any action and waits for stabilization of a signal from probes.

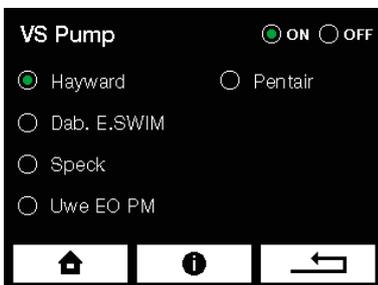


## Concentration pH –

If you use the original ASEKO Pool & SPA chemicals keep the preset value.

In case of use of non-original chemicals adjust concentration according to data on the label of a chemical used.

**Warning:** Higher concentrations of chemicals can result in shorter lifetime of ASIN AQUA Salt components and may cause injury and health damage.



## VS variable speed pump control

In the settings, select the type of your variable speed pump.

ASIN AQUA Salt allows you to use 4 speeds of your VS pump.

Speed 0 (OFF)

Speed 1 (LOW) for economical filtration outside the TIMER.

Speed 2 (MEDIUM) for filtration during TIMER periods.

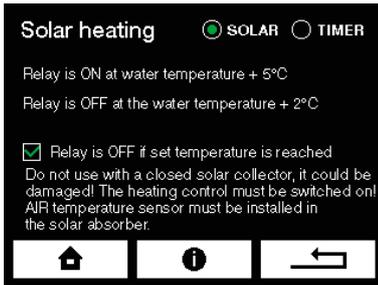
Speed 3 (HIGH) during filter backwash.

By default, the variable speed pump runs at speed 2 during filtration timer periods. Outside of the filtration timer periods, when the standard circulation pump is off, the variable speed pump can run at speed 1 or be OFF (depending on its setting). During filter backwash, the pump is automatically set to speed 3.

Individual speeds are set directly on the pump according to the pump manufacturer's manual.

## Programmable relay

### Solar heating



To use this function, in the menu **PROGRAMMABLE RELAY** choose the option **SOLAR**. **Connect the air thermometer to the solar absorber** and to the POTENTIAL-FREE relay TIMER / HEATING connect what is to be controlled by the relay.

Once the temperature of the solar absorber **is 5 °C higher** than the temperature of the water, ASIN AQUA Salt activates the relay which starts the circulation of the water to the solar absorber. When the temperature of the solar absorber is not 2 °C higher than water temperature the relay is deactivated.

When using both solar heating and the heat pump simultaneously, SMART HEATING gives the option to automatically disable the heat pump, utilizing only solar absorbers to optimize electrical consumption.

- In the HEATING CONTROL menu go to the Heating at Outdoor Temperature (above or below) and check the HEAT BELOW option. Set the temperature between 30 to 40 °C.

**WARNING:** Do not use with a solar collector.

**WARNING:** In order to activate this function, heating control must be switched ON.

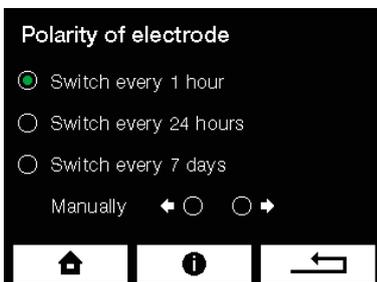
### Timer



To use this function, in the menu **PROGRAMMABLE RELAY** choose the option **TIMER**. One or two intervals can be set for the activation of the relay. Connect what is to be controlled by the TIMER to the POTENTIAL-FREE relay Timer / Heating.

### Polarity

Here you can set how often the polarity of the cell changes. The harder the water, the shorter the polarity change time required. A longer polarity change time extended the lifespan of the cell.



## Other automatic functions

BESGO 3-way  
#83140



### Switch of pool water flow - Besgo 3w OVERFLOW / BOTTOM DRAIN

During set filtration timer periods, water flows through the OVERFLOW (relay is activated).

Outside the set filtration timer periods, water flows through the BOTTOM DRAIN (relay deactivated).

During filter backwash, water flows through the BOTTOM DRAIN.

An alarm WATER LEVEL TOO HIGH switches the water flow to the OVERFLOW until the alarm expires.

The pool cover has no effect on the BOTTOM / OVERFLOW switching.

**The three-way BESGO should be connected in a way that when the solenoid valve is not powered, water flows through the BOTTOM.**

### Pool cover position

If the pool cover is closed during the filtration time set by the timer, the VS pump will change the speed to the Speed 1 (LOW).

## MAX POOL VOLUME

Uncovered  
**60 m<sup>3</sup>**

Covered  
**90 m<sup>3</sup>**

Hybrid  
**250 m<sup>3</sup>**

**Max. Salt  
4 kg/m<sup>3</sup>**

**Min. Salt  
3 kg/m<sup>3</sup>**

## System start-up

### Salting the pool water

Chlorine generating depends on the salt concentration and water temperature. The lower the temperature, the lower the chlorine production. You can boost the electrolyzer by increasing the salt concentration. 1 kg of salt per cubic meter of water can increase the electrolysis power for about 20%. Maximum salt concentration is 4kg/m<sup>3</sup>.

Exceeding the recommended salt concentration will overload power supply components of the ASIN AQUA Salt. The main unit is protected by maximum current control circuit. Overload automatically disconnect the power supply. Thin the salt concentration before switching the power supply again. Never use lower salt concentration than 1,5g/l - this expressively reduce the electrode lifetime. Higher salt concentration is very corrosive and may cause corrosion of pool equipment.

### Disinfection is expressively affected by following:

- temperature
- intensity of sun shining
- quantity of person using the pool
- weather conditions
- organic pollution

### Instructions to operate the electrolyzer:

The amount of chlorine produced depends only on the concentration of salt in the pool water.

Never switch on the ASIN AQUA Salt before the salt in the water is completely dissolved.

Electrode connection to ASIN AQUA Salt must be done only when disconnected power supply.

### Important water parameters

Parameter	Recommended value	Impact on water quality
pH	7,2 - 7,4	Affects the effectiveness of disinfection
Alkalinity	80 - 120 mg/l	Stabilizes pH
Salt content	3 - 4 g/l	Affects electrode performance
Water hardness	max. 350 ppm	Causes electrode clogging
iron and manganese content	max. 0,1 mg/l	Causes a brown-green discoloration of the water
Cyanuric acid	0ppm	Cyanuric acid greatly diminish the effectiveness of chlorine, making it impossible to measure and control.



**Salt to be used**

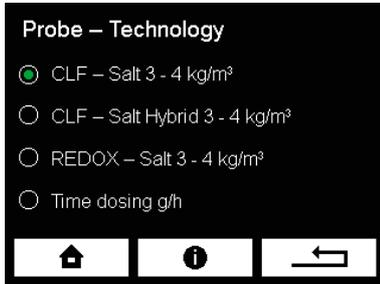
Do not use rock salt. All additives may cause electrode lifetime shortening.

ASIN AQUA Salt is designed to electrolyze water with 4 kg/m<sup>3</sup> salt concentration.

Electrode may be damaged at lower salt concentrations than 1,5 kg/m<sup>3</sup>. It is necessary to provide routine salt concentration control. The salt concentration changes only little during electrolysis. The main change in salt concentration is caused by filter backwashing, splashing and strong rains.

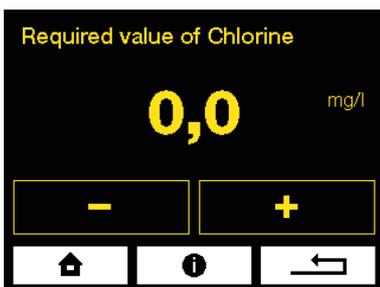
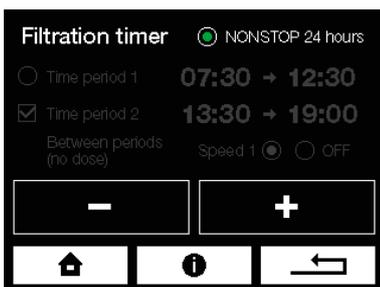
Following table displays salt quantity in kg necessary to increase the concentration to 4 kg/m<sup>3</sup>.

SALT CONTENT kg/m <sup>3</sup>	POOL VOLUME									
	10 m <sup>3</sup>	15 m <sup>3</sup>	20 m <sup>3</sup>	25 m <sup>3</sup>	30 m <sup>3</sup>	35 m <sup>3</sup>	40 m <sup>3</sup>	50 m <sup>3</sup>	60 m <sup>3</sup>	70 m <sup>3</sup>
	Salt quantity in kg, necessary to increase the concentration to 4 kg/m <sup>3</sup>									
0	40	60	80	100	120	140	160	200	240	280
0,25	37,5	56,25	75	93,75	112,5	131,25	150	187,5	225	262,5
0,5	35	52,5	70	87,5	105	122,5	140	175	210	245
0,75	32,5	48,75	65	81,25	97,5	113,75	130	162,5	195	227,5
1	30	45	60	75	90	105	120	150	180	210
1,25	27,5	41,25	55	68,75	82,5	96,25	110	137,5	165	192,5
1,5	25	37,5	50	62,5	75	87,5	100	125	150	175
1,75	22,5	33,75	45	56,25	67,5	78,75	90	112,5	135	157,5
2	20	30	40	50	60	70	80	100	120	140
2,25	17,5	26,25	35	43,75	52,5	61,25	70	87,5	105	122,5
2,5	15	22,5	30	37,5	45	52,5	60	75	90	105
2,75	12,5	18,75	25	31,25	37,5	43,75	50	62,5	75	87,5
3	10	15	20	25	30	35	40	50	60	70
3,25	7,5	11,25	15	18,75	22,5	26,25	30	37,5	45	52,5
3,5	5	7,5	10	12,5	15	17,5	20	25	30	35
3,75	2,5	3,75	5	6,25	7,5	8,75	10	12,5	15	17,5
4	0	0	0	0	0	0	0	0	0	0



## Choosing the disinfection Probe - Technology

- 1. CLF – Salt 3 - 4 kg/m<sup>3</sup>** - Measures free chlorine levels and uses saltwater electrolysis to produce chlorine. Additionally, doses algicide to prevent forming of algae. Suitable for lower free chlorine set points.  
**For systems with a chlorine probe, the CLF - Salt Hybrid is recommended technology.**
- 2. CLF – Salt Hybrid 3 - 4 kg/m<sup>3</sup>** - Measures free chlorine levels and combines saltwater electrolysis and liquid chlorine dosing to efficiently maintain optimal free chlorine levels. Ideal for precise and consistent free chlorine levels even in hot summer days.
- 3. Redox – Salt 3 - 4 kg/m<sup>3</sup>** - Measures redox and uses saltwater electrolysis to produce chlorine and free oxidation radicals for effective disinfection of pool water. Additionally doses algicide to prevent forming of algae.



## Commissioning procedure and required value setting

### Commissioning procedure

The water in the pool must be clean without any additives. Ideally fill the pool with fresh water from the water main.

- Set the Filtration timer to NONSTOP 24 hours
- If you have the CLF probe, set the disinfection to 0.0 mg/l.  
If you have the REDOX probe, set the disinfection to 000 mV.

**CLOSE**



### Close the water supply to the probes

ASIN AQUA Salt displays no flow to the probes.



SuperCHLOR  
#13120

## Perform superchlorination

Perform superchlorination of pool water with Super CHLOR (inorganic active chlorine without stabilizers).

Follow the instructions on the packaging (1 kg = 80 m<sup>3</sup>).

## Wait at least 1 hour. Optimally up to 24 hours

**Before opening the water supply** to the probes, the water must be **clean** and the **chlorine concentration** measured by the colorimeter or Pool Tester must be within the range **0.3 to 1.2 mg/l**.

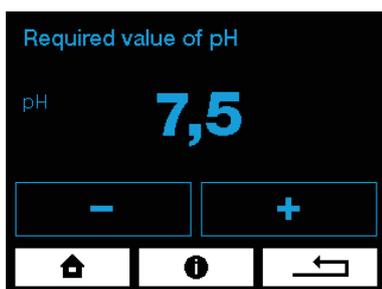
If the **concentration is lower**, repeat superchlorination. If the **concentration is higher**, wait till the chlorine concentration in the water drop down.

OPEN



## Open the water supply to the probes

Warning No flow to probes turns off automatically.

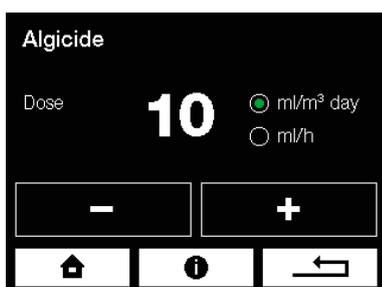


## pH Setting

With ASIN AQUA Salt it is necessary to maintain pH 7.2-7.5 to keep longer lifespan of the electrode.

**Required pH value = refilled water pH value (in the range from 7.2 to 7.5)**

pH may change during operation but if it is in the range from 7.2 to 7.5 you do not have to change this setting.

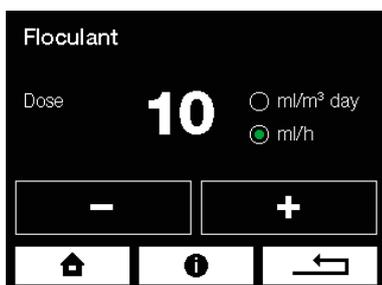


## ALGICIDE Setting

A sufficiently effective dosage for most swimming pools is 10 ml per m<sup>3</sup> per day. If green algae appears in the swimming pool, it is possible to increase the dosage. After the algae is removed from the water, the dosage can be set back to 10 ml.

**By switching the dosing method from ml/m<sup>3</sup>/day to ml/h you can use Flocc instead of Algicide.**

**This option is not available with ASIN AQUA Salt Hybrid.**



## FLOC+C Setting

The FLOC+C dose is calculated from the amount of circulating water, which flows through the filtration.

Based on your circulating pump power (in m<sup>3</sup> per hour), adjust the FLOC+C dose value. E.g. with the circulation pump with power of 10 m<sup>3</sup>/h set the FLOC+C dose to 10ml/h. This value ranges from 10 to 40 ml per hour for most private pools.

**This option is not available with ASIN AQUA Salt Hybrid.**

# If you use the CLF probe

For the correct functionality of the CLF probe you must observe the following conditions:

## pH of the pool water

The pH value should be between **7.2 and 7.5**.

**The pH of the pool water must be stable.**

If the pH value fluctuates, the value of the chlorine changes accordingly.

## Determination of the required chlorine value in pool water

ASIN AQUA Salt disinfects water by releasing chlorine from NaCl in the electrolyzer. Gaseous chlorine is directly released into the flowing pool water, where it eliminates all microorganisms within seconds. However, this chlorine is highly reactive and unstable, breaking down quickly, especially under sunlight. As a result, you can enjoy swimming in clean, non-aggressive water without a chlorine odor. To maintain clean pool walls, it is recommended to operate the electrolyzer at night when the pool is covered, allowing chlorine to remain in the water longer. The system is also equipped with Algicide dosing to protect the pool against algae.

The recommended chlorine level is 0.3 ppm. If higher concentrations are required, we recommend using hybrid technology.

## How to set the required chlorine value

Use a colorimeter or digital Pool Tester to measure the chlorine value in pool water sample.

**If the chlorine concentration (measured with a colorimeter or digital Pool Tester) is:**

- **ADEQUATE** to the value shown on the ASIN AQUA Salt, your device is ready to maintain the required concentration of chlorine in pool water.
- **BELOW** the required value shown on the ASIN AQUA Salt, increase the required value **by 0.1 (by 0.2 mg/l max)** (regardless of the required value according to the table).

Repeat the measurement after the water in the pool is mixed thoroughly and the value shown on the ASIN AQUA Salt is stable.

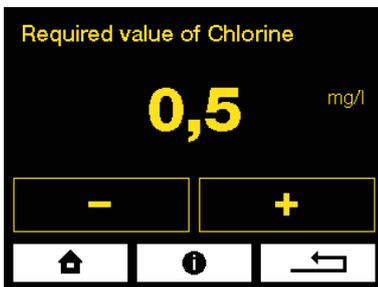
Repeat the process until the **chlorine concentration in pool water matches your required value** then set the correct required value according to the table. Additionally, you can perform the calibration of the CLF probe (see the chapter CLF Probe Calibration).

- **HIGHER** than the required value shown on the ASIN AQUA Salt display - you can calibrate the CLF probe (see the chapter CLF Probe Calibration).

### NOTIFICATION:

Fix the **low chlorine value** in pool water by **increasing required disinfection value on the display of the unit**.

**RECOMMENDATION:** Check the chlorine value in the pool once a week using the colorimeter or digital pool tester.



# If you use the Redox probe

For the correct functionality of the REDOX probe, you must observe the following conditions:

## pH of the pool water

The pH value should be between **6.8 and 7.5**.

**The pH of the pool water must be stabilized.**

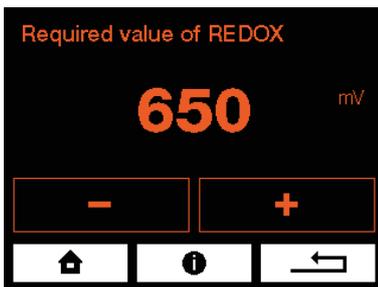
If the pH value fluctuates, the value of the Redox changes accordingly.

## Determination of the required chlorine value in pool water

The recommended chlorine level is 0.3 ppm. If higher concentrations are required, we recommend using hybrid technology.

### WARNING

Before proceeding to setting of the required values, keep the probe connected to the water for at least 1 hour, ideal 24 hours, to stabilize its measurement.



## How to set the required Redox value

Set the required REDOX value to **650 mV**

Use the tester to check if the **chlorine content in pool water is within the range of 0.3 - 0.8 mg/l**.

## Fine-tuning

Use the colorimeter or Pool Tester to measure the chlorine value of the pool water. If the manually measured chlorine value in pool water is:

- **ADEQUATE**, your ASIN AQUA Salt is ready to maintain the required concentration of chlorine in pool water.
- **LOW**, increase the required REDOX mV value in the menu.
- **HIGH**, reduce the REDOX mV value in the menu.

**Every 10 mV corresponds approximately to 0.1 mg/l of chlorine in the pool water.**

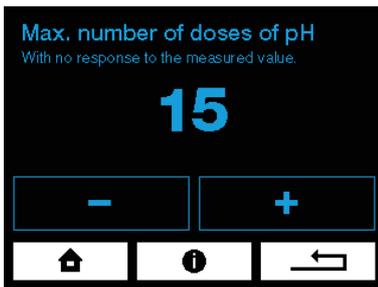
### EXAMPLE:

The chlorine value in the pool water is 0.3 mg/l - the displayed value is 650 mV. If you want to increase the chlorine value to 0.5 mg/l. You have to increase the preset value of the redox by 20 mV to 670 mV.

### NOTE:

The relationship of Redox potential and chlorine value in pool water cannot be determined by the exact table. The correct value of the Redox must be observed by several check measurements.

# Safety Functions

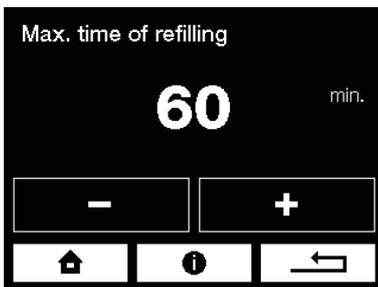


## Maximum Number of pH Doses - without Probe Response

If the measured pH value does not decrease even after preset maximum number of doses (according to the settings), ASIN AQUA Salt stops pH dosing and an error message appears on the display.

The other ASIN AQUA Salt functions are not limited.

The error message must be canceled manually.



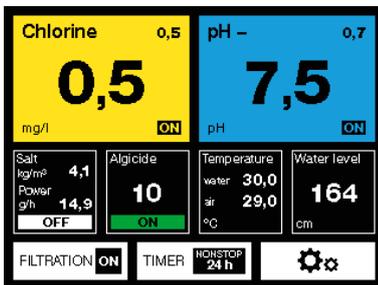
## Maximum Refilling Time

Maximum time to reach the required water level. If the water level is not reached within the preset maximum refilling time an error message appears.

# Operation

In standard automatic mode, only these 3 screens are displayed.

## Home screen



## Delay after start

ASIN AQUA Salt does not dose and waits for the probes to stabilize and the pool water to mix.



## Filtration is turned off by the timer



# In Operation Measurement and Calibration

**Calibration is not possible when the new value differs by more than 1 from the non-calibrated value.**

**The pH probe can only be calibrated in the pH range of 6.2 to 7.8.**

**The pH probe cannot be calibrated when the LOW or HIGH warning is displayed.**

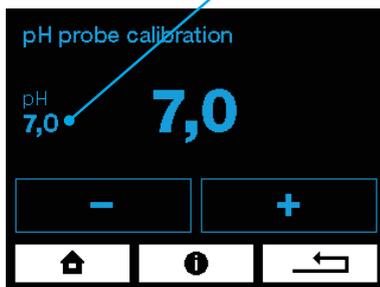
## pH Probe Calibration

When pH is being measured in operation, there may be a difference between the value measured by ASIN AQUA Salt and the actual pH value in water. Proceed to the calibration.

### pH Probe Calibration menu

#### Non-calibrated value

The pH probe calibration menu always displays the original non-calibrated value. Calibration of the pH probe is not possible when the new value differs by more than 1 from the non-calibrated value. If the difference from the non-calibrated value exceeds 1, the probe should be sent for inspection or replaced with a new one.



### pH Probe Calibration process

Calibration can be done in two ways:

#### 1. With a buffer

- **Close the water supply to the probes.**
- Remove the probe from ASIN AQUA Salt :  
rinse the probe with clean water and wipe it.
- The probe must remain connected to the device via the cable. Dip the probe in the calibration buffer and after the value displayed on ASIN AQUA Salt is stable, enter the buffer value into the pH Probe Calibration menu.

pH 7.00 Buffer #12065

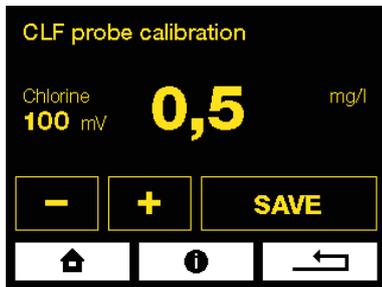


Photometr  
#13076



#### 2. With a colorimeter or Pool Tester

- **The water supply to the probes must be open**
- Measure the pH value directly in pool water using a colorimeter or Pool Tester.
- Then enter this value into the pH Probe Calibration menu. Calibration can be performed in the range of 6.4-7.8.



## CLF Probe calibration

**Do not calibrate the probe until** the water in the pool is thoroughly mixed and **the value displayed on the ASIN AQUA Salt is stable.**

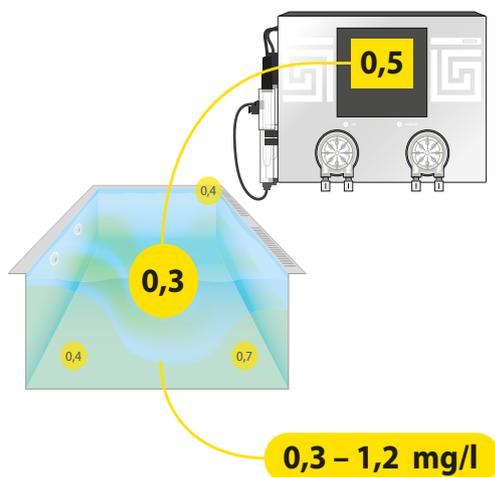
**This may take several hours.**

**Perform calibration of the CLF probe when the manually measured value of free chlorine is equal to or higher than the value you are calibrating to.**

Calibration is performed by entering the manually measured value of chlorine concentration (using a photometer) in the CLF Probe Calibration menu.



Photometr  
#13076



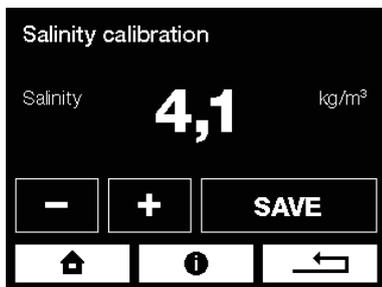
Calibration **is not necessary** if the difference between the photometer measured value and the value shown on the display **is less than 0.2 mg / liter.**

Calibration is best performed with chlorine concentrations in the pool water in the range of **0.3 - 1.2 mg / l.**

### Calibration restrictions

The CLF probe cannot be calibrated if the output **signal is less than 20 mV.**

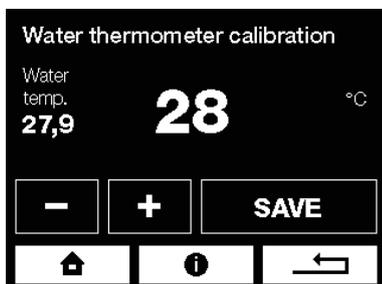
The CLF probe can only be calibrated in the CL range **from 0.3 to 5.0 mg / l.**



## Salinity calibration

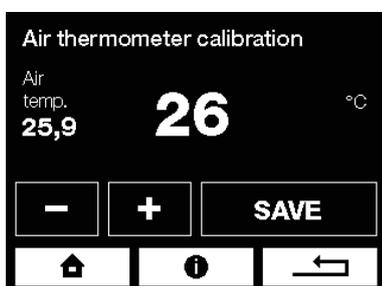
If salt concentration in the water is different from concentration shown by ASIN AQUA Salt, calibrate the salinity in the Salinity calibration menu.

**Warning:** Salinity calibration is not possible if the water thermometer is not connected.



## Water Thermometer Calibration

If water temperature is different from temperature shown by ASIN AQUA Salt, calibrate the thermometer in the water thermometer calibration menu.



## Air Thermometer Calibration

If air temperature is different from temperature shown by ASIN AQUA Salt, calibrate the thermometer in the air thermometer calibration menu.

BALANCER #13039



## Stabilizer in water

**The water in the pool must be clean without any additives. Ideally fill the pool with fresh water from the water main.**

## Alkalinity

Alkalinity volume in the water should range from **80 to 120 ppm**. Alkalinity stabilizes the pH and reduces its consumption. To increase the Alkalinity in the water, use **Pool & SPA BALANCER** (#13039).

## Cyanuric Acid

The value of Cyanuric acid must be **0 ppm**. Cyanuric acid greatly diminish the effectiveness of chlorine, making it difficult to accurately measure and control its concentration.



## Lifespan of the electrolytic cell

Lifetime of the electrolytic cell is 8000 running hours. The electrodes in the electrolytic cell are made of titanium with a ruthenium and iridium layer. During electrolysis this layer gets consumed. Durability of the electrodes is reduced by the following parameters: Low salt content, Water temperature below 10 °C, Low water flow, Too hard water, pH below 7.5, Addition of metals containing preparations.

# Maintenance

#12073 Replacement hose for the pump PP 60



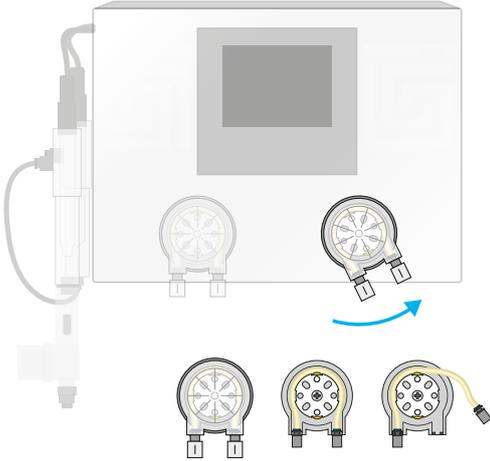
To ensure the optimum efficiency, perform visual checks and maintenance of ASIN AQUA Salt on a regular basis.

## Pump tube replacement

To prevent the pump from failing, it is recommended to replace the tube #12073 every 24 months.

**In doing so, proceed as follows:**

- Switch off ASIN AQUA Salt.
- Turn the pump cover cassette anticlockwise and take it out of ASIN AQUA Salt.
- Release both tube ends and take it out of the cassette.
- Lubricate the new tube with the supplied special grease.
- Insert the lubricated hose into the cassette.
- Place the cover cassette back on ASIN AQUA Salt and turn it clockwise to lock it.
- Use new nuts, which are part of the replacement tube set, for connection of the PE tube.



#12005 Injection valve



## Injection valve maintenance

On a regular basis, check throughput of the injection valves, rubber band integrity, remove scale.

In case of private pools, replace injection valve rubber bands #13087 every 2 years. In case of public pools, replace #12005 every year.

#13087 Replacement rubber band for injection valve



Flow detector #12106



## Flow detector with filter

Rinse the filter of the flow detector regularly.

Fuse T 2 A #13094  
Fuse T 800 mA #13096  
Fuse T 8 A #13097



## Fuse Replacement

### T2A Fuse

Fuse protecting the electrolyzer. In case of its burnout, check the electrode.

### T800mA Fuse

Fuse protecting external sensors. In case of burnout of this fuse, check the level sensor, flow meter, and external display.

### T8A Fuse

Fuse protecting the device, including the BESGO valves and circulation pump.

pH - Buffer 7,00  
#12065



## pH Probe Testing

Take the probe out of ASIN AQUA Salt housing and clean it from impurities. Check for visible mechanical damage on the probe.

Measure the pH value if it falls within the tolerance range of +/- 1.0. For example, if the water pH is 7.2 and the probe measures 7.9, it is in tolerance, the probe is considered okay.

Test the probe's response to positive or negative changes in water or buffer by immersing it in a 7.0 pH buffer and observing the response after one minute. The response should be at least 90%.

Follow the instructions in the user's manual for the probe.

## CLF Probe Testing

The free chlorine probe should output a signal of at least 20 mV at a free chlorine concentration of 0.8 mg/liter.

If the signal is lower, send the probe for inspection.

Conduct a test with clean water (standing for 24 hours) and ensure the signal is lower than 20 mV. Otherwise, send the probe for inspection.

Redox Buffer 475 mV  
#12063



## REDOX Probe Testing

Take the probe out of ASIN AQUA Salt housing and clean it from impurities. Check for visible mechanical damage on the probe.

Ensure that the redox probe's sensitivity does not exceed -12% and that it measures above 420 mV at the buffer value of 475 mV.

Test the probe's response to positive or negative changes in water with 0 chlorine concentration.

**ASEKO covers supplied probes to with two year warranty period**

## Electrolysis cell cleaning

Electrolysis cell cleaning

In operation, the electrolysis cell is gradually clogged by sediments from the hard water, that must be eliminated repeatedly. The clogging of the electrolysis cell decreases the electrolysis cell capacity. In this case, the electrolysis cell has to be taken out and submerged in the cleaning bath for about 10 minutes. The coating should disappear and the electrolysis cell can be used again.



# Winterizing - storage during winter

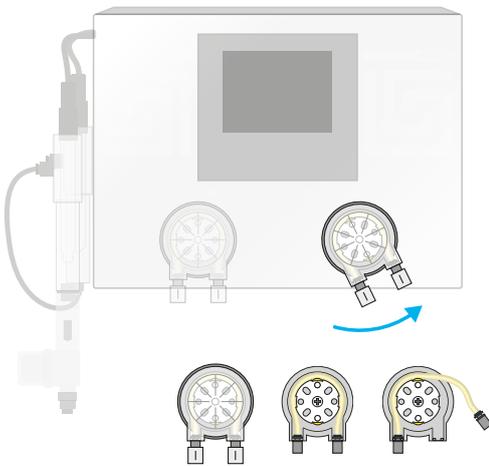
If you want to operate ASIN AQUA Salt in Winter mode, go to the chapter Configuration - Winter mode. If you do not want to operate the device in Winter mode, it is necessary to winterize the device and all its components (store them when not in use).

## Winterization of the unit and its accessories

If you do not want to have the ASIN AQUA Salt device in operation in winter, the device and all accessories must be dismantled, winterized and moved to a suitable location. To disassemble and winterize the ASIN AQUA Salt, follow the instructions below.

### Storing of pool chemicals, connecting PE tube and dosing pumps

- If the chemicals are left in a place where the temperature does not drop below 0°C, turn OFF the ASIN AQUA Salt. Disconnect the dosing pumps from the ASIN AQUA Salt and remove the inner tube from the pump. Leave the tube connected to the connecting PE tube. Put the pump cartridges without the inner tubes back onto the ASIN AQUA Salt. Store the chemical barrels and connecting PE tube in a place where the temperature is between +0 - +40 °C.
- If chemicals remain in a location where the temperature drops below 0°C, SWITCH OFF ASIN AQUA Salt. Remove the connecting PE tubes from the chemical barrels and place them in a container with water. Turn on ASIN AQUA Salt. Go to the RELAY TEST menu and press Chlor/Oxypure, pH, Algicide and Floc. When the connecting PE tube is completely filled with water, turn OFF the relay test. Remove the water container and perform the RELAY TEST again to completely fill the connecting PE tube with air. When the connecting PE tube is completely filled with air, stop the relay test and turn OFF the ASIN AQUA Salt. Disconnect the connecting PE tubes from the dosing pumps and from the injection valves. Store the chemical barrels in a place where the temperature is between +0 - +40 °C.



### Disconnect of the ASIN AQUA Salt and its accessories

1. Disconnect the ASIN AQUA Salt mains cable from the 230 V / 50 Hz socket.
2. Disconnect the filter unit's mains cable from the ASIN AQUA Salt and store the filtration pump according to manufacturers manual.
3. Disconnect all accessories from the ASIN AQUA Salt motherboard and store them according to manufacturers manual.

pH/Rx probe storage sump  
#12154



Storage liquid for pH and REDOX probe  
#12082



## Winterizing of probes

### Winterizing of pH and Redox probe

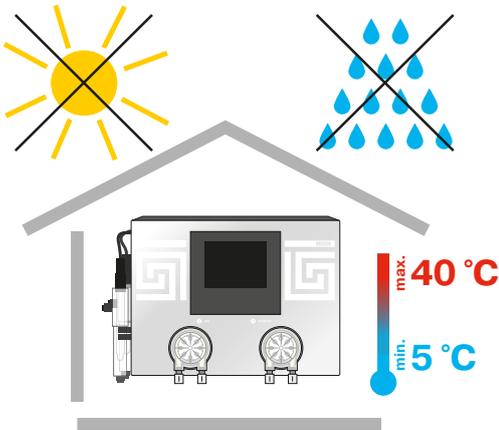
Remove the probe from the housing, dry it with a paper towel and place it in a storage sump filled with a special storage liquid. See probes manual at the website [manuals.asekopool.com](http://manuals.asekopool.com).

### Winterizing of CLF probe

Remove the probe from the housing, unscrew the membrane and empty the electrolyte from it. Do not put the membrane back on the probe and store them separately in a dust-free place where the temperature is between +5 - +40 °C and the humidity does not exceed 70% throughout the winter. See probes manual at the website [manuals.asekopool.com](http://manuals.asekopool.com).

## Storing of the unit

Move the ASIN AQUA Salt unit in a place where the temperature is between +5 - +40 °C and the humidity does not exceed 70%.



# Internet connection

The LAN connector is to be connected to the domestic router. Data are sent in the intervals of 10 seconds to the address **aseko.cloud**, the route must not be blocked by the firewall.

If you are not able to setup the connection by your own ask your IT specialist for help.

## Possible connection methods

### Home network

Connect the ASIN AQUA Salt to your router via LAN cable.

### Mobile network

In case you have no direct internet access you can use the data transmission over the mobile network. Connect the ASIN AQUA Salt to your mobile network router via LAN cable.

### Wifi connection

If you install the ASIN AQUA Salt in place where is no access to your private network by wired connection but your Wifi has enough signal, you can connect the ASIN AQUA Salt to your Wifi by use of Wifi extender.

### Powerline via 230V/DC

If you have no wired access to your LAN network but your ASIN AQUA Salt is in the at the same electric network you can connect the LAN network via 230 V power line socket adapter.

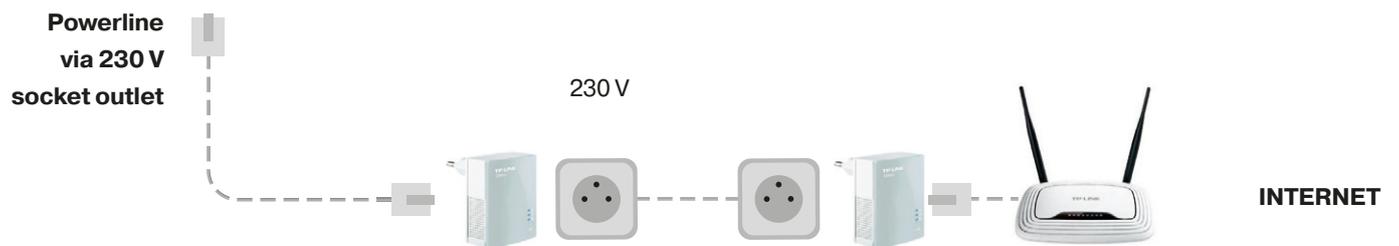
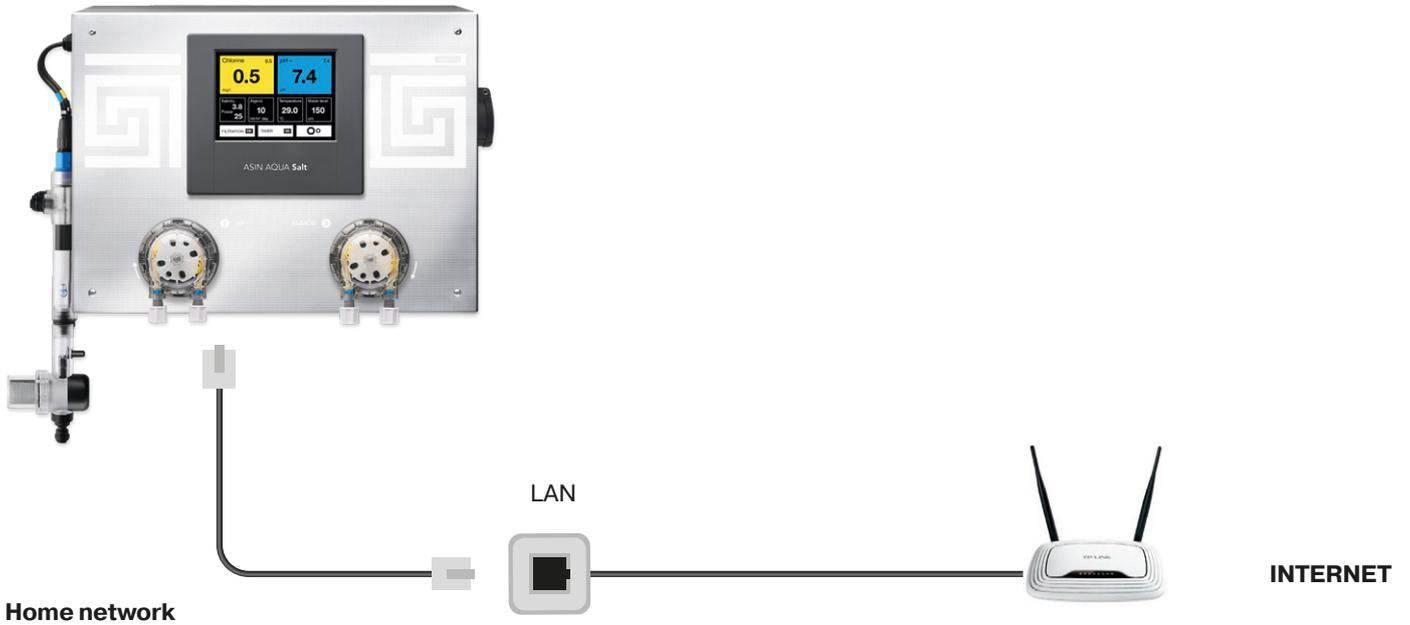
### If you have connection problems:

Please switch off ASIN AQUA Salt.

Restart the router and switch on the ASIN AQUA Salt again.

The home network must be open to communication on both sides for URL: **aseko.cloud**

The name of the network unit ASIN AUA Pro is "Jinan USR IOT".



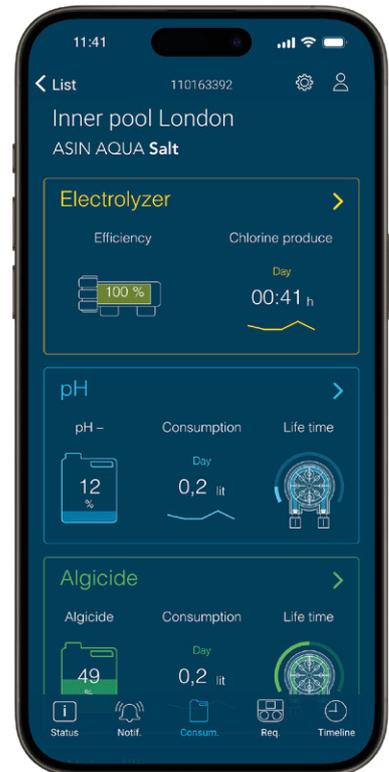
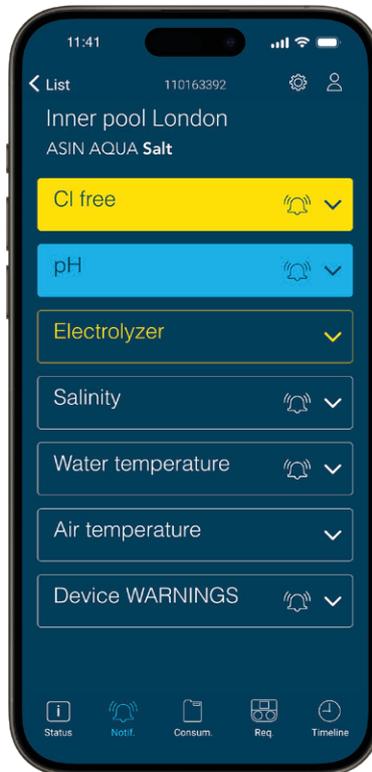
# Aseko Cloud Services

## Aseko Live app

The internet connection allows you to use the Aseko Live mobile application and monitor your pool on mobile devices wherever the internet connection is available.

After you connect the ASIN AQUA Salt to the internet download the Aseko Live application to your smartphone. Application is available for iOS and Android operation systems.

App's main screen, after opening, will ask for typing your ASIN AQUA Salt serial number. You can add more units to the Aseko Live app.



Aseko Live  
pro iOS



Aseko Live  
pro Android



# Aseko Cloud Services

<https://aseko.cloud>

The web application for detailed monitoring of the pool water quality by means of well-arranged graphs. It shows all the measured parameters and ASIN AQUA Salt actions up to 30 days back.

This application is giving you the detailed information of the pool status and detailed review of all events, taken actions and act levels of monitored items up to 30 days back.

Transparent graphic environment of chart lines is giving fast report and you can easily see interconnection of monitored values.

This application is useful at public pool installations where you need to observe the history and monitor the pool water quality and maintenance. In case of any discrepancy in water quality you can find all actions, provided in that moment and in relation to other values you can diagnose the reason of such discrepancy.



# Error messages

Those error messages appear when:

## Agent run out

- Check liquid levels on a regular basis, refill in time.

## Dosing pump does not dose

- Leakage in connection of PE tubes or they are damaged.
- Failure of dosing pump. Check whether pump is running. If so, check the hose inside the pump for damage or breakage and replace it, if required.

## Injection valve clogged

- Impassable spray valve.  
Check the valve for being clogged with impurities or deposits or the rubber seal for being damaged.
- Failure of dosing pump. Check whether pump is running.  
If so, check the hose inside the pump for damage or breakage and replace it, if required.

## No water flow to probe

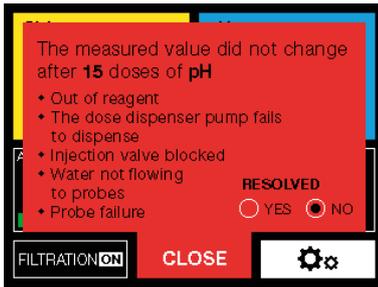
- Check the measured water filter and clean it, if required.
- Check condition of connecting tubes from the extraction valve to the measured water inlet to probes and furthermore, from the water outlet from probes to the closing valve.
- Check condition of the extraction valve and the closing valve and their seals, for being clogged and their closed position.

## Probe out of service

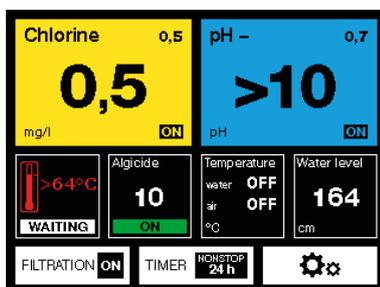
- Measure pH using the hand tester. If the pH value is too low, a respective agent was overdosed due to an incorrect probe function (provided that other reasons given in the previous points have been excluded).
- Take the probe out and check it for mechanical damage.
- Clean the probe following the above procedure.
- It is recommended to replace the probes with the new probes every two years.

## The device has overheated

If the temperature in the device exceeds 65 ° C, electrolysis stops.



This error message appears after 15/30 doses of pH without probe reaction.





### Too rapid pH change

Too rapid change of pH is usually caused by refilling water directly to the skimmer. If such rapid change of pH occur, ASIN AQUA Salt stops controlling pH for two hours.

This limitation can be manually disabled.

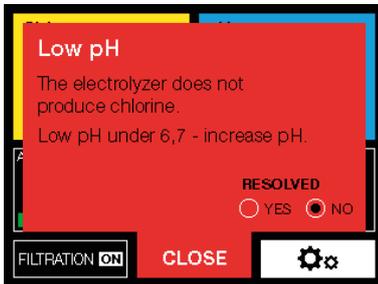
After pH has been stabilized or two hours have elapsed, ASIN AQUA Salt changes over to the normal mode.



### Overload

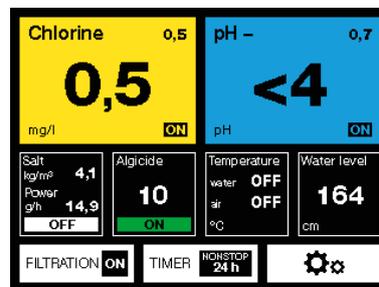
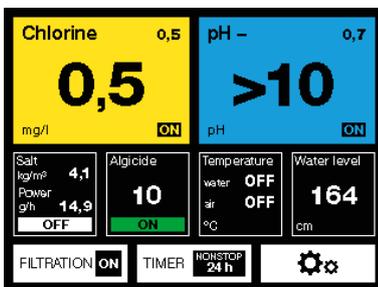
If the recommended salt concentration is exceeded, the power supply is automatically interrupted.

Too low salt concentration in the water. Less than 1.5 kg/m<sup>3</sup>.



Electrolysis does not produce chlorine. The pH value is below 6.7, increase the pH value.

### No water flow to probe



### The probe shows a pH > 10

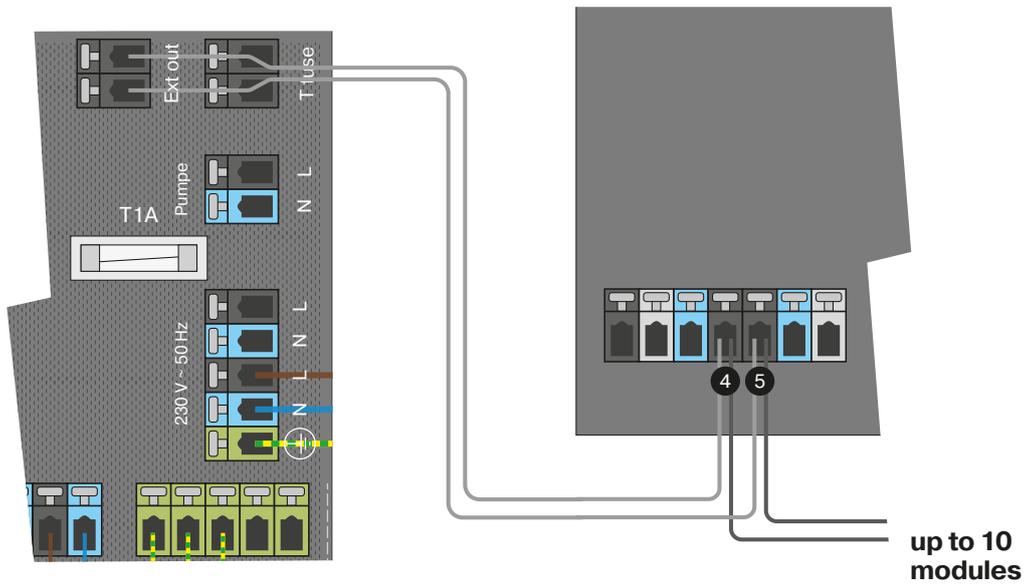
Check the pool water and probe.

### The probe shows pH < 4

Check the pool water and probe.

# Connection ASIN AQUA Salt to ASIN Salt

The ASIN Salt expansion module must be connected to the ASIN AQUA Salt control unit with a cable. To activate the external control, select the EXT mode on the display.

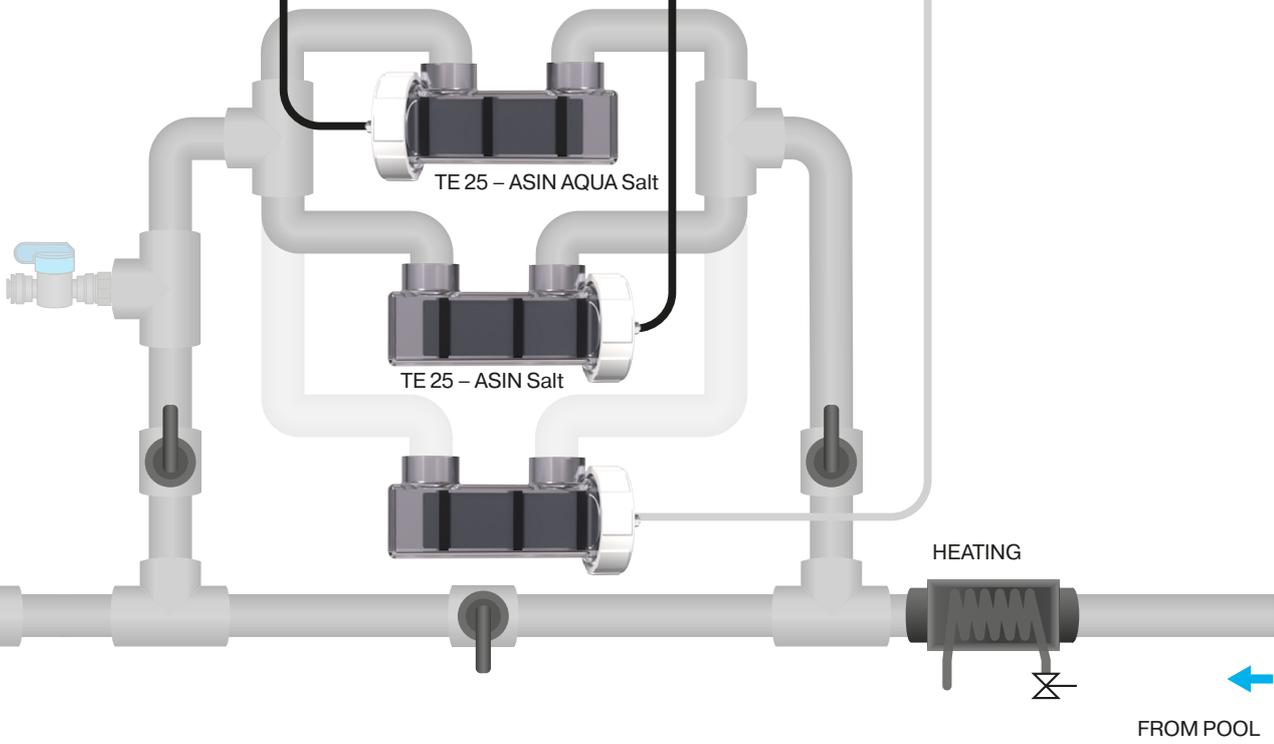


Select the EXT mode



up to 10 modules

Connection cable to ASIN Salt





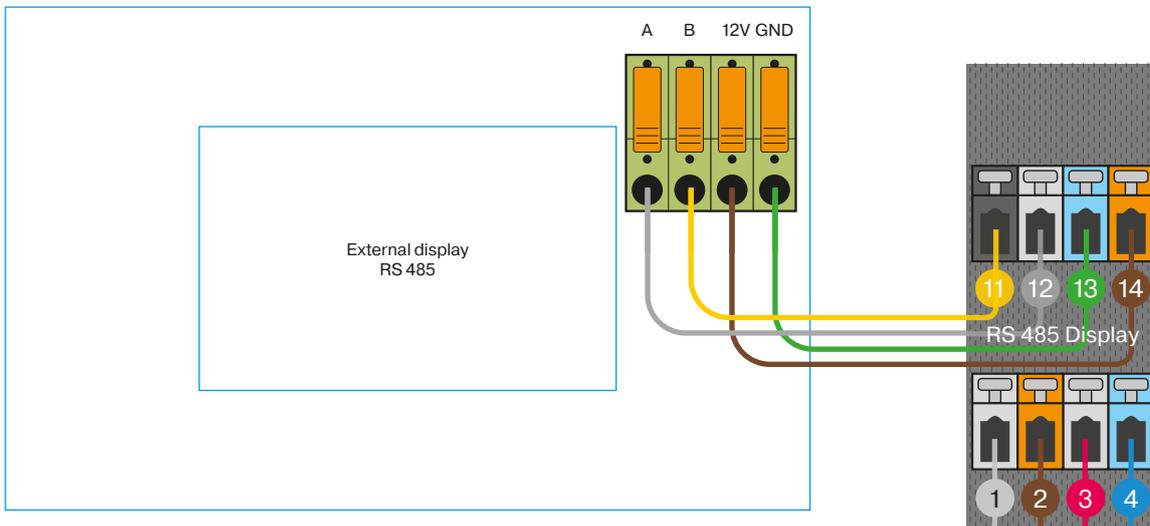
External  
Touchscreen Display  
#12048

## Externes touchscreen display

The external display shows

1. Pool water parameters:  
Temperature, pH value, redox potential or chlorine concentration.
2. Parameters of the air in the pool area:  
relative humidity and temperature.

The setpoints can be set on the ASIN AQUA Salt device and a probe calibration can be carried out via the external display.







USER MANUAL

# ASIN AQUA **Salt**

EN