

# EASY WATER ANALYSIS

for pool and spa

USER MANUAL

# E.W.A INSTALLATION

## Introduction

In-line devices require a qualified professional to install a probe inside a pipe or water tank. After the hardware is successfully installed, you can download our user-friendly app for free, allowing you to access data from your device at any time and from anywhere. It is crucial for the installer to read, understand, and follow these instructions carefully.

## General Requirements

All pipes need to be installed following the lines and slopes shown in the drawings. The installer or if you install yourself is in charge of making sure that water, mud, sand, or sewage does not get inside the pipe while it's being installed. Probes should always be kept wet and must be installed at an angle of at least 15 degrees to avoid drying out.



### WARNING!!

Never submerge probe cables or communications dome.



Failure to follow instructions as set out in this document may void the product warranty.



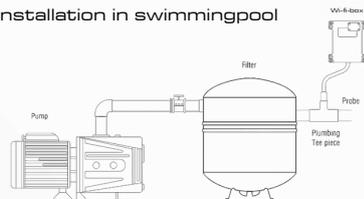
The probe will need to be calibrated periodically. Contact your supplier for more information.

## Mounting an Inline Device:

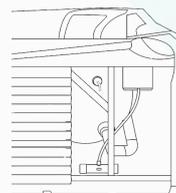
To install the device, connect it to a Wi-Fi-box. This unit should be mounted on a wall or pole near the device. Ensure it is positioned as high as possible.

**IMPORTANT:** Keep the communications box dry. Although it is IP67 rated, it should not be submerged in water. Please refer to the complete inline installation example for more details.

Installation in swimmingpool



Installation in Hot tub



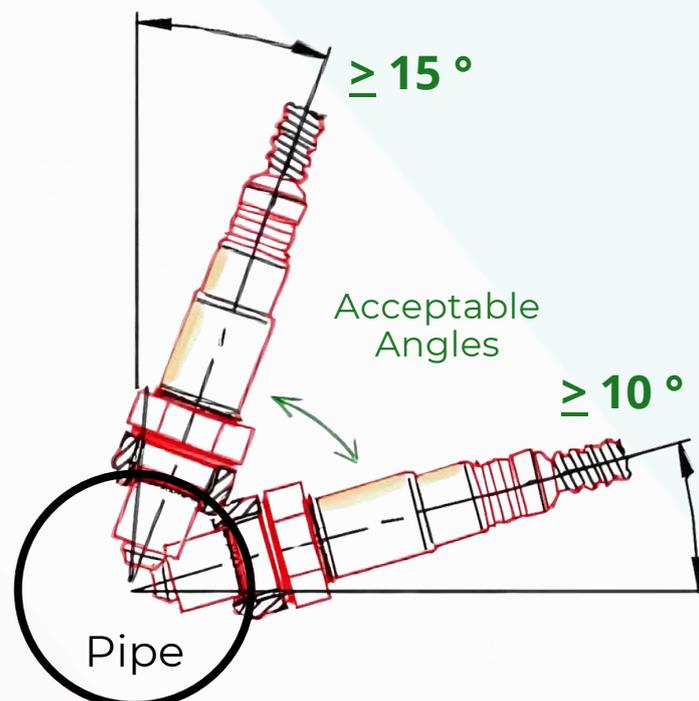
While we recommend that a professional plumber handle the installation to ensure optimal results, we understand that a regular customer may also be able to install it by following our detailed instructions carefully. It is crucial to adhere to all safety measures and guidelines provided to ensure a successful installation.

## Step 1: Identify the correct installation point.

When installing an in-line device, follow these simple steps:

- 1. Location:** Install the device in the PVC pipe or hose:
  - After the sandfilter when it's in a pool.
  - Before or after the circulation pump in outdoor spa.
  - Always before the heater in an outdoor spa.
  - If there's no filter at all, place it where there's minimal debris.
- 2. Angle:** Make sure the probe is installed at an angle of at least  $15^\circ$  with the tip facing downward. This helps keep the probe submerged or damp when the pump is off and prevents air bubbles that could affect readings. Avoid installing the tip facing straight up or down.
- 3. Insertion:** Ensure the probe tip is fully inserted into the pipe for accurate measurements.
  1. *Probe Cap:* Keep the probe cap safe for future use.
  2. *Calibration:* All scientific probes need to be calibrated regularly. We recommend performing a reference test every 12 to 24 months to ensure accuracy. If you need help with calibration, contact your supplier. Our probe is always calibrated in factory and ready to use direct.

By following these guidelines, you can help ensure that your device works properly and provides accurate readings.



## Step 2: Drill a hole into the pvc pipe for the probe to be mounted.

You will need a 20-25 mm Hole Saw Drill Bit and an electric drill as seen here.



**Note:** This is NOT included in the box and should be sourced separately. Next, fit the drill bit onto the electric drill and drill a 20-25 mm hole into the pvc pipe at the selected location.

**CAUTION:** Always take extreme care when working with electrical equipment near water to avoid severe injury or death.

## Step 3: Assemble the saddle clamp and probe adapter.

The saddle clamp included in the box needs to be assembled as shown below. Ensure that the O-Ring is fitted into the circular indentation on the top half of the saddle clamp. No O-ring is required on the bottom half. Use a generous amount of plumbing tape/ Teflon tape (not included) on the screw thread of the probe adapter before screwing it into the saddle clamp.



## Step 4: Secure the saddle clamp around the PVC pipe or hose.

Install the saddle clamp (50 mm) and probe adapter around the PVC pipe/hose, ensuring that the adapter is aligned with the hole, and secure it with nuts and bolts. If the pipe or hose is less than 50 mm, use the provided spacer.



## Step 5: Place the probe into the probe adapter.

First, remove the plastic protective cap from the probe and connect it to the probe adapter. Be sure to store the protective cap safely for future use.

(Note: The probe must remain moist. If it is taken out of installation and you don't use a cap filled with water similar to that in your pool or spa, it may break and the warranty will not be valid.)

The plug is secured in the saddle to ensure a tight seal, allowing you to temporarily detach the probe if necessary in the future.



## Step 6: Connect probe to Wi-fi unit

Connections  
for electricity

Connection  
for probe



## Step 7: Connect control unit to Wi-Fi

Connect to electricity from 230v, Balboa or Gecko solution.  
(Depending on your version)

What smartphone do you have?

## Google Play/Android:

1. Go to your phone's app store and search for 'ESP Config' (See below image)



Or scan QR code



## iOS:

1. Go to your phone's app store and search for 'Espressif Esptouch' (See below image)



Or scan QR code



## Important information

To ensure a smooth connection of your device to your WiFi network, please follow these steps carefully:

### **The Wi-Fi box only works with 2,4 GHz Wi-Fi**

- 1. Understanding the LED Indicator:** The app itself does not provide a direct confirmation of the device's connection status. However, you can easily determine if the device is connected by observing the LED indicator. If the LED light changes to a solid Green, this indicates that your device is successfully connected to your WiFi network.
- 2. Monitoring the LED Status:** After setting up your device, wait for a moment until the screen times out. Then, take a look at the LED indicator on the device. If it has turned solid Green, congratulations! Your device is now connected to WiFi.
- 3. Troubleshooting Connection Issues:** If you notice that the LED light has not changed to solid Green, it means the device is still not connected. In this case, please disconnect the power supply from the device, wait for about 15 seconds, and then reconnect it. This will restart the connection process from start.
- 4. Preparing the App:** Before you begin the configuration process, make sure you have the app open and ready to use. The app serves as a helpful tool that guides you in connecting the device to your WiFi network.
- 5. Confirmation of Connection:** Once you observe that the LED is steady green, you can be assured that the device is now connected to WiFi

By following these steps, you can ensure a successful connection of your device to your WiFi network. If you have any questions or need further assistance, please do not hesitate to reach out to our support team.

We're here to help!

Now continue to next page.

## MAGNET RESET TO CONNECT UNIT TO Wi-Fi

Use a magnet to reset the device

-Place a magnet on the top of the device or for 10 seconds or until the LED starts flashing Green.

(See below image)

If Step 1 fails then try moving the magnet over slightly and repeat



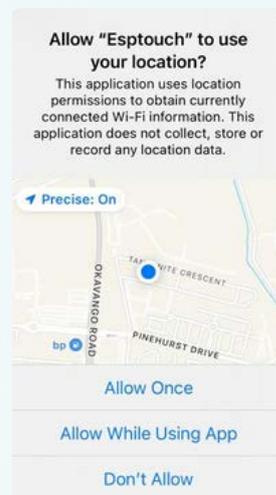
## Connect to your Wi-Fi with iOS

Step 1.

Go into the downloaded app 'Espressif Esptouch'  
Make sure the device LED is flashing Green

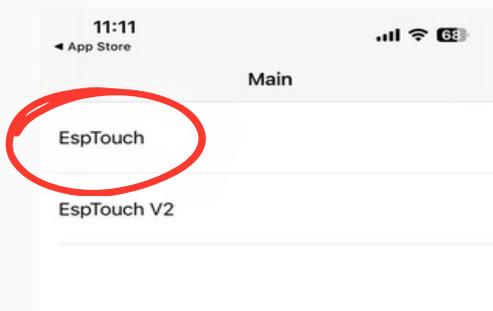
Step 2.

Tap "Allow While Using App" for location permissions

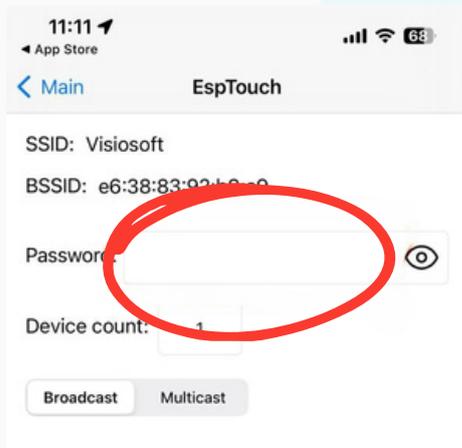


Step 3.

Tap "EspTouch"



Then input your WiFi Network password



Step 4.

Tap "Confirm"



## Connect to your Wi-Fi with Andriod/Google Play

Step 1.

Go into the downloaded app 'ESP Config' app

Make sure the device LED is flashing Green

Step 2.

Tap "Allow While Using App" for location permissions

Step 3.

Tap "Esp Config"

Type in your Wi-Fi

credentials

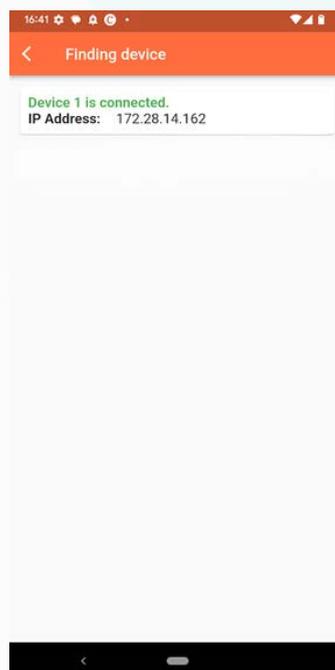
And then "Connect WiFi to ESP device".



Step 3.

Select the device that comes up on the list. and when the status is connected its done.

you can now continue with the installation.



## Step 8: Access E.W.A

The application is accessible on the App Store and Google Play, as well as through a web app.

To launch it, open your browser on your smartphone, tablet, or computer. Enter the address: <https://ewa.proa.live>

Register your account and follow the instructions to set up your probe.

**On Android:** When using Google Chrome, be mindful of the automatic prompt that appears, asking if you would like to install the app on your home screen. Tap Yes. The app will now appear on your home screen.

**On Apple iOS:** First, go to the URL mentioned above in Safari. Tap the "Share" button and choose "Add to Home Screen" from the pop-up menu.

Finally, tap "Add" in the upper right corner to finalize the installation of the PWA. It will now be on your home screen.

Indicate whether you have installed E.W.A on a pool or spa.

Your device ID in the control unit consists of the numbers and letters that are highlighted.

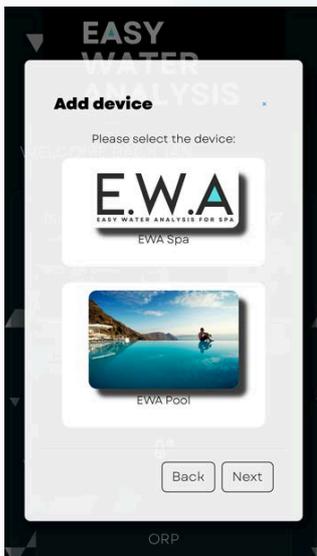
You only type in the numbers and letters marked.

XXXX-XXX-~~ZZZZZZZZZZZZZZZZ~~-XX

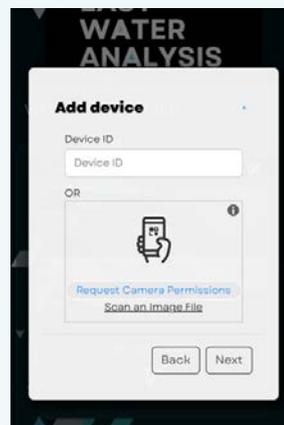


# Step 8: Setup up E.W.A

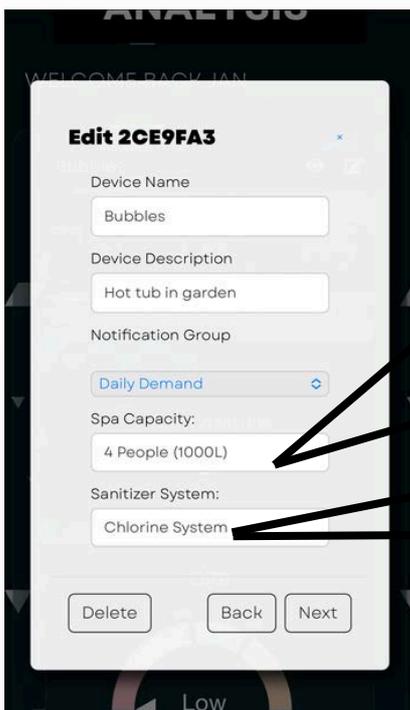
## 1. Register your Spa or Pool



## 2. Enter your DeviceID

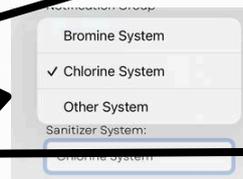
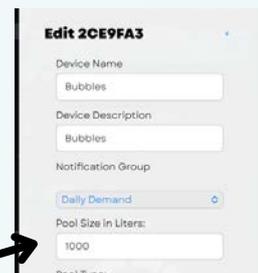
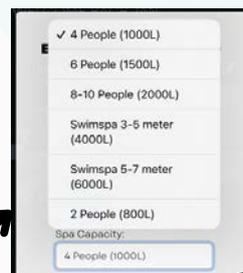


## 3. Enter fields regarding Spa or pool

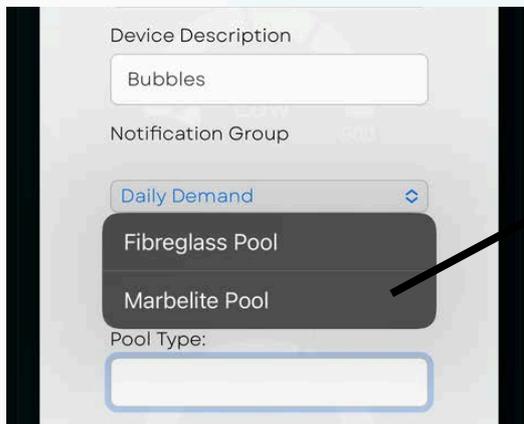


Spa

Pool



## Pool



Device Description  
Bubbles

Notification Group  
Daily Demand

Daily Demand

Fibreglass Pool

Marbelite Pool

Pool Type:

### 1. Chlorine Demand

- Fiberglass pools need lower chlorine levels because they resist algae growth.
- Marbelite pools need higher chlorine as the rough surface traps contaminants and algae.

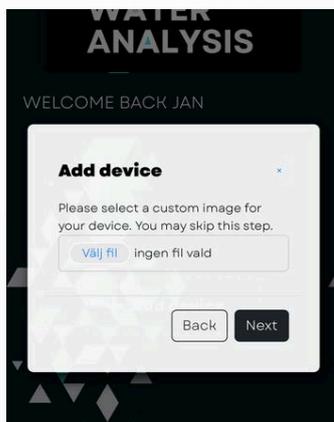
### 2. pH Stability

- Fiberglass pools maintain stable pH, requiring less adjustment.
- Marbelite pools have rising pH over time, needing regular acid dosing.

### 3. Total Alkalinity & Calcium Hardness

- Marbelite pools require higher calcium hardness to prevent plaster deterioration.
- Fiberglass pools can maintain lower calcium levels as there is no plaster to erode.

## 4. Upload a picture



WATER ANALYSIS

WELCOME BACK JAN

**Add device**

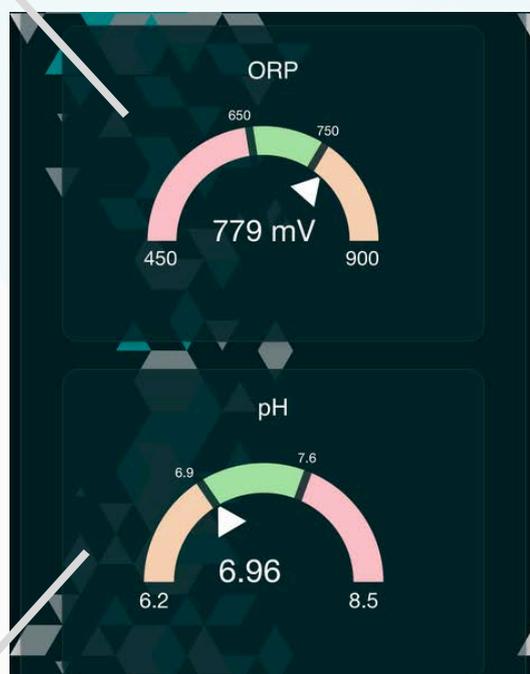
Please select a custom image for your device. You may skip this step.

Välj fil ingen fil vald

Back Next

**ORP**, or Oxidation-Reduction Potential, measures how well your spa keeps the water clean and safe from harmful germs. It shows how effective disinfectants like chlorine or bromine are in killing bacteria. If the ORP value is high, it means your spa water is doing a great job at staying clean.

With E.W.A., you can easily check your spa's ORP levels in real-time using your smartphone. This way, you can relax knowing your water is safe and clear without needing to test it manually. Keeping the right ORP levels helps protect your spa and your health, giving you a worry-free and enjoyable experience.



**pH** measures how acidic or alkaline the water is, which is important for a comfortable spa experience. The ideal pH range is between 7.2 and 7.8, ensuring the water is gentle on your skin and eyes while still allowing chemicals like chlorine to work effectively.

E.W.A. allows you to continuously monitor pH levels right from your smartphone. This makes it simple to keep your water balanced without the guesswork or manual testing. E.W.A. helps you maintain great water quality with minimal effort, so you can focus on enjoying your spa instead of maintaining it!

## **General Terms and Conditions for EWA Water Analysis Product**

### 1. Area of use

EWA is a water analysis product designed to measure and monitor water quality in private and commercial pools. The product is not intended for any other use and should be handled according to the specifications provided in the user manual.

### 2. Installation and Maintenance

The product must be installed and maintained according to the manufacturer's instructions to ensure proper operation. Any damages or defects that occur due to improper installation, use, or maintenance are not covered by the warranty.

### 3. Limited Liability

EWA is provided to improve the maintenance of water quality, but the manufacturer is not responsible for the consequences of any incorrect readings. The customer is responsible for regular monitoring and maintenance of the pool.

### 4. Warranty conditions

The manufacturer provides a limited warranty on the EWA product, as specified below.

## **Warranty terms for EWA Water Analysis Product**

1. **Warranty period** The warranty is valid for 24 months from the date of purchase. Proof of purchase, such as a receipt or invoice, is required for the warranty to apply.

### 2. Scope of the warranty

The warranty covers:

- Defects in materials and workmanship.
- Free repair or replacement of defective components.

The warranty does not cover:

- Wear parts or components that require periodic replacement due to normal use, e.g. the probe
- Damage caused by incorrect installation, careless handling, changes to the product, or external influences such as moisture, extreme temperatures, or chemical substances.
- If probe is broken because the sensor has been kept dry or is dry in anyway.

### 3. Warranty procedure

To use the guarantee, the customer must:

- Contact the manufacturer's customer support and describe the problem.
- Provide proof of purchase and other necessary information.
- If the manufacturer determines that the product is covered by the warranty, instructions are sent for how to repair or replace.

### 4. Limitations in the Warranty

The warranty is limited to repair or replacement of defective components. The manufacturer is not responsible for indirect damages, such as lost income or costs incurred as a result of product defects.

### 5. Refund

In cases where repair or replacement cannot be offered, the manufacturer reserves the right to offer a refund corresponding to the current value of the product.

### 6. Contact information for Warranty matters

For questions about the warranty or to make a warranty claim, contact our customer service at:

Contact

support@zavepower.com

www.zavepower.com

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