

Balance Water

Adjust water balance

Parameter	Ideal Range	Adjust by
pH	7.2 – 7.6	Lower by adding Hydrochloric Acid. Raise by adding Sodium Bicarbonate.
Calcium Hardness	170 - 250ppm	Lower by diluting the pool water. Raise by adding Calcium Chloride.
Alkalinity	60 -150ppm	Lower by adding Hydrochloric Acid. Raise by adding Sodium Bicarbonate.
TDS	1000-1500ppm	Lower by diluting the pool water. Raise by adding Pool Salt.

Do not use Cyanuric Acid (Stabliser) as this will interfere with the oxidising capability of the Enviroswim system

3. Commission

Complete your warranty form at <https://www.enviroswim.com/warranty-registration/>

1. Balance the water as per above. Ensure all Enviroswim switches are set to OFF and variable controls (Ioniser and ORP) at minimum (fully counter clockwise).

2. Set the left-hand switch (AUTO/OFF/MANUAL) on the Enviroswim Control Box to MANUAL. Turn on the pool pump so that water is flowing through the filtration system, including the Enviroswim Oxidiser/Ioniser Wet Cell Housing and Ultrasonic Chamber. Make sure that the Oxidiser/Ioniser Wet Cell Housing is filled with water.

3. Set the right-hand switch (ON/OFF) on the Enviroswim Control Box to ON.

4. Turn the Oxidiser knob on the Enviroswim Control Box (under the Oxidiser display) slowly clockwise until the Oxidiser display reads between 14 - 16 Amps.

5. Turn the Ioniser knob to maximum. Run the unit for approximately 1 hour per 1,000 litres of water.

6. Perform chemical tests to determine the water balance readings for pH, ORP, alkalinity, copper and calcium hardness then adjust accordingly (see the above balance water table).
Note: **Copper Testing** – the copper levels can only be checked when pH is in the correct range.

7. Once the copper levels are within the range of 0.2-0.4 ppm, set the timeclock for the appropriate run time (1 hour per 10,000 litres) and adjust the Ioniser output to 20-40%.

8. Start-up is now complete. Remember every pool is different. Factors that will impact runtime are location, bather load, season, type of cover and water temperature.
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When can I use the pool?
When all the water levels are balanced correctly, as per the above table.

Balance Water

1. Plan
2. Install
3. Commission

What's in the Box?

- 1 x Enviroswim Control Box
(power lead attached)
- 1 x Complete Wet cell housing
 - 1 x Oxidiser Plate
 - 1 x Copper/silver Electrodes
 - 2 x O Rings and Locking Nuts
- 1 x Ultrasonic Chamber
- 4 x 40/50mm reducing bushes
- 1 x Installation Guide
- 1 x User Manual
- 1 x Copper test kit



1. Plan

Plan layout of components

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 - a. Check component dimensions.
 - b. Confirm sequence of components in water flow.
 - c. Check cable lengths for control box location.
 - d. Power Supply

2. Confirm additional materials required
 - a. Pipe fittings and Pipe adhesive
 - b. Cable ties

3. Tools
 - a. Pipe Saw
 - b. Drill and Bits
 - c. Screwdriver

Review instructions next page

IMPORTANT SAFETY INSTRUCTIONS

ATTENTION INSTALLER

This installation guide contains important information about the installation of this product. For complete instructions on operation and safe use of this product refer to Enviroswim ES3 User Manual.

- WARNING** - READ AND FOLLOW ALL INSTRUCTIONS. IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS
- WARNING** – To reduce the risk of injury, do not permit children to use this product.
- WARNING** – When mixing acid with water, ALWAYS ADD ACID TO WATER, NEVER ADD WATER TO ACID.
- WARNING** – There are no serviceable parts in the control box. Return to Enviroswim for service.
- WARNING** – Do not operate electrolytic cell without proper flow or water circulation. A build-up of gases can occur and cause hazardous conditions.
- CAUTION** – Use of chemicals other than those recommended may be hazardous. Follow the Chemical Manufacturer's Instructions.
- CAUTION** – This unit is for use with permanently installed pools. Do not use with storable pools. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.
- CAUTION** – Some modern variable speed pumps have settings that produce inadequate water flow to either fill the ES3 wet cell or create sufficient flow to affect the ES3 processes. Ensure the wet cell housing has adequate flow of water and is full of water while the Enviroswim is operating.

READ ALL THESE INSTRUCTIONS

For advice phone 07 5655 6150 or email : info@enviroswim.com

2. Install

Ultrasonic Chamber
1.8 Metre Lead



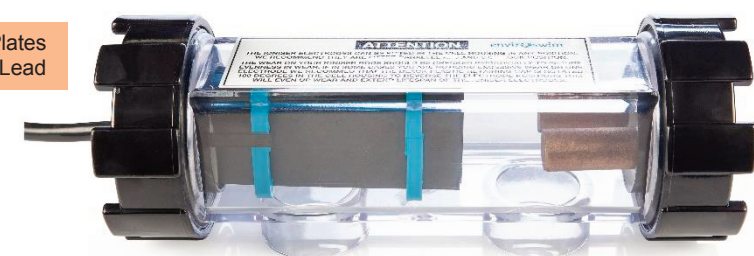
290mm

For 50mm pool pipe, reducers for 40 mm included.

Ultrasonic Chamber
may be installed
anywhere within the
filtration pipework,
with any orientation.

WARNING :
Ensure cell is mounted
oriented as shown.
Horizontal with water
flow from underneath.
Other orientations may
disable water level
sensor. Water inflow
should always be at
oxidiser end.

Oxidiser Plates
1.8 Metre Lead



360mm

140mm

Recommended
Maintenance Access
150mm

Copper/silver Electrodes
1.8 Metre Lead

135mm

WARNING : Do not use
primer on acrylic cell.

Actual Size Drilling Template

Recommended sequence guide

Mains Power Supply:
240V/50Hz 10Amp
earthed power supply



Under side

10 amp
Power
socket



Electronic Control Unit

465mm
Rear side mountings 380mm center to center

(170mm deep)

165mm

Filter
Media or
Cartridge
(No Zeolite)

Ultra Sonic
Chamber
Can be installed
anywhere or Horizontal
or vertical

Ultra Sonic

Oxidiser

Ioniser

Wet Cell

Heater - Optional

Pump

From Skimmer Box

Return
to pool



Acid Doser
installation
(optional)
Refer to Acid
Doser Manual