

Balance Water

These instructions are repeated in the Operating Manual and should be repeated every time the pool is refilled.

1. Ensure that unwanted compounds are eliminated from the water.

Parameter	Required	Notes and Treatment
Metals	<recommended for that metal	Test unusual supplies such as bore water for excessive amounts of metals – in particular, manganese, iron and magnesium. There are different recommended maximums. Remove using appropriate sequestering agents.
Phosphates	< 100ppb/0.1ppm	Use phosphate remover.
Copper	< 0.1 ppm	Dilute or use a sequestering agent to reduce. Note: To establish the copper ions and proportionate silver ions with the Enviroswim process require there is no significant residual copper in the.

2. Adjust water balance

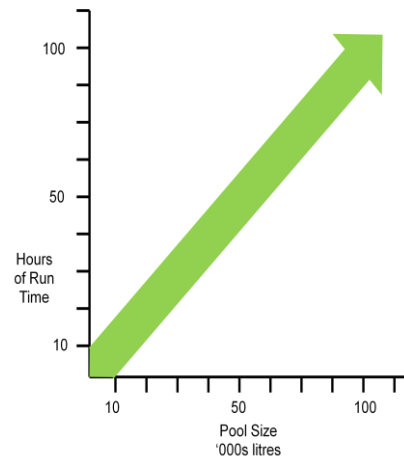
Parameter	Minimum	Ideal Range	Maximum	Adjust by
pH	6.8	7.1-7.5	7.6	Use Hydrochloric Acid or Sodium Bisulphate to reduce. Sodium Bicarbonate to increase.
Calcium Hardness	160	200-250ppm	400	Use Calcium Chloride to increase
Alkalinity	50	80-150ppm	200	Use Sodium Bicarbonate to increase
TDS	500	500-800ppm	1500	Use Pool Salt to increase – Dilute to decrease

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

3. Commission

Complete and return your Warranty Registration Card NOW!!

- 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).
- Turn on the pool pump so that water is flowing through the filtration system and the Enviroswim ionization/oxidation chamber and ultrasonic emitter pipe. Set the left hand switch on the Enviroswim unit to MANUAL. Make sure that the ionization/oxidation chamber is filled with water.
- Turn on the right hand ON/OFF switch on the control box.
- Turn the knob on the control box under the ORP meter slowly clockwise until the ORP meter reads between 13 - 15 Amps.
- Turn the ioniser switch to maximum. Run the unit for approximately 1 hour per 1000 litres of water and test copper level.
- Perform chemical tests to determine readings for pH, ORP, alkalinity, copper, and calcium hardness then adjust accordingly. Refer to Operating Manual for appropriate treatments.
- Test the copper level and when in the range 0.2-0.4 ppm set the system for the appropriate run time and adjust the Ioniser output to around 50%.
- Startup is now complete. Refer to the operating manual for a guide on run times. Remember every pool is different. Factors that will impact runtime are location, bather load, season, type of cover and water temperature.



When can I use the pool?

It is OK to use the pool while the Copper levels are being established provided the EnviroSwim system is processing the water continuously and the correct water balance (pH, alkalinity and hardness) is established. The Oxidation process will treat organic matter and as water flows through the cell it will be being treated with concentrated Copper and Silver ions. We recommend that the water is allowed to circulate at least once (allow 1 hour per 10,000 litres) before swimming.

Balance Water

1. Plan

2. Install

3. Commission

What's in the Box?

- 1 x Enviroswim Control Unit
- 1 x Transparent water cell
 - 1 x Titanium plate assembly
 - 1 x Cu/Ag electrode assembly
- Ultrasonic Emitter assembly
- Power Cable
- 4 x 40mm to 50mm adapters
- Installation Guide (this guide)
- Operating Manual (A5)
- Warranty Registration Card
- Copper test kit



1. Plan

- Plan layout of components
 - Check component dimensions.
 - Confirm sequence of components in water flow.
 - Check cable lengths for control box location.
 - Power Supply
- Confirm additional materials required
 - Pipe fittings and Pipe adhesive
 - Cable ties
 - Mounting Screws
- Tools.
 - Pipe Saw
 - Drill and Bits

Review instructions next page

IMPORTANT SAFETY INSTRUCTIONS

ATTENTION INSTALLER

This manual contains important information about the installation of this product. For complete instructions on operation and safe use of this product refer to EnviroSwim ES-3 Operating Manual

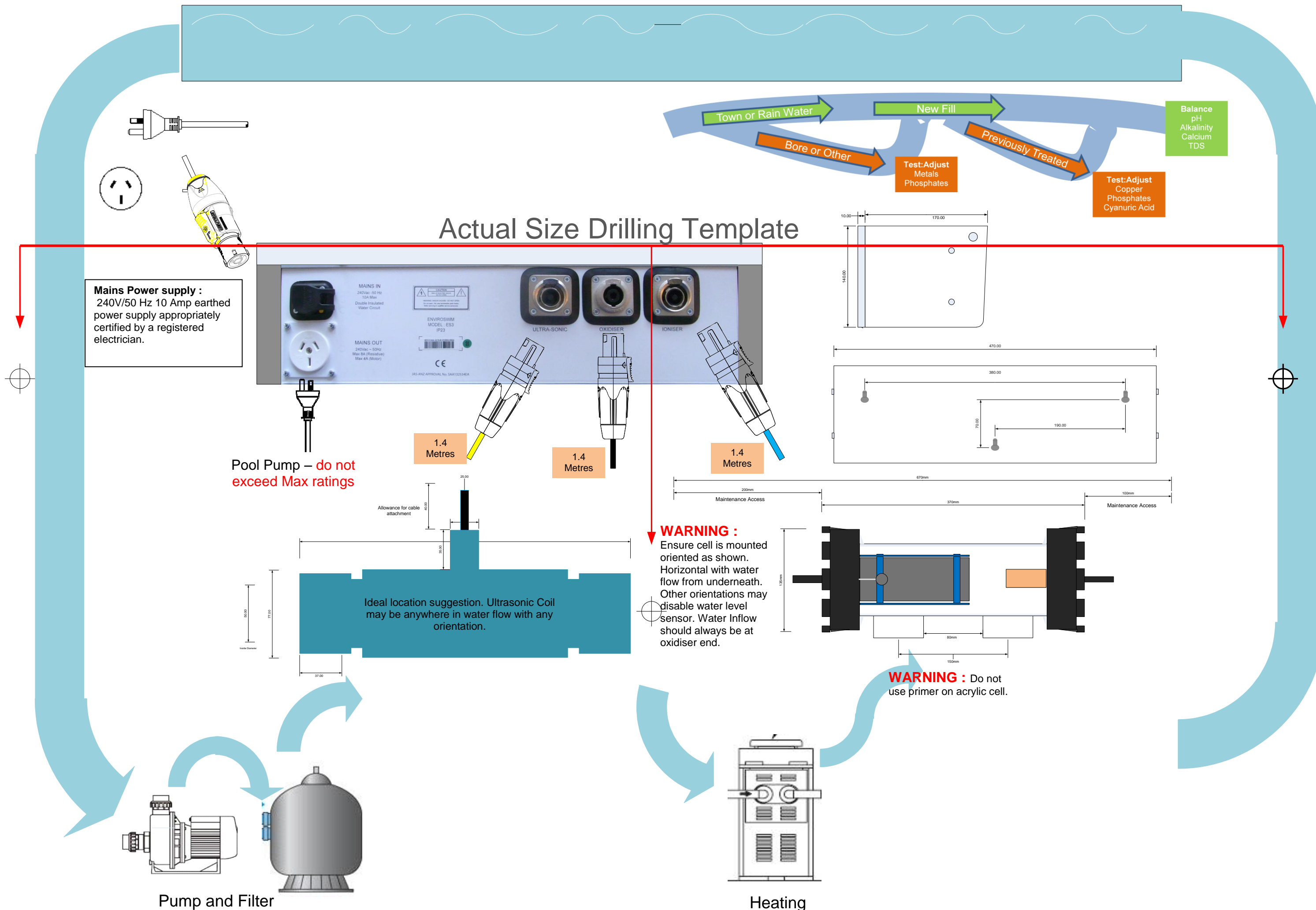
- WARNING** - READ AND FOLLOW ALL INSTRUCTIONS. IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS
- WARNING** - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised.
- WARNING** - When mixing acid with 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 will result in 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 ES-3 wet cell or create sufficient flow to effect the ES-3 processes. Do not allow these pumps to operate at their minimum speed when the ES-3 is being operated.

READ ALL THESE INSTRUCTIONS

For advice phone 1300 888 457 or email : info@enviroswim.com

Return your Warranty Registration Card to ensure

- Warranty commences from installation rather than manufacturing date
- Seasonal Newsletter
- Rapid response to your questions



Mains Power supply :
240V/50 Hz 10 Amp earthed power supply appropriately certified by a registered electrician.

Pool Pump – do not exceed Max ratings

1.4 Metres

1.4 Metres

1.4 Metres

Ideal location suggestion. Ultrasonic Coil may be anywhere in water flow 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.

WARNING : Do not use primer on acrylic cell.

Pump and Filter

Heating