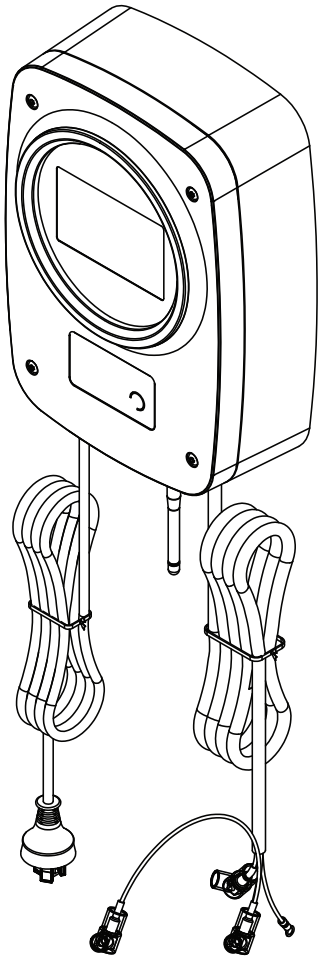
AstralPool
FLUIDRA

**Installation and Operation Manual**



# Echo Chlorinator

**Models:** **Echo 18** **Echo 35**
**Echo 25** **Echo 45**

## ⚠ WARNING

**FOR YOUR SAFETY** – This product must be installed and serviced by a licensed and qualified pool equipment contractor in accordance with the latest applicable version of AS/NZS 3000 and any other applicable local or council codes and standards.

Before installing, operating, inspecting, cleaning or servicing this product, read and follow the Owner's Manual and all safety instructions. Before performing any maintenance or servicing, switch off and isolate the product from the electrical supply.

Failure to follow these instructions may result in electric shock, fire, gas accumulation, equipment damage, serious injury or death. Improper installation, operation or servicing may also void the warranty.

**ATTENTION INSTALLER:** This manual contains important safety, installation, operation and maintenance information. After installation, provide this manual to the owner/operator and advise them to retain it for future reference.

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Before installing or operating the Echo Chlorinator, read all instructions supplied with the product and any connected pool equipment. Installation and service must be carried out by a suitably qualified person where required by local regulations.

**⚠ WARNING**

**Child Supervision:** This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

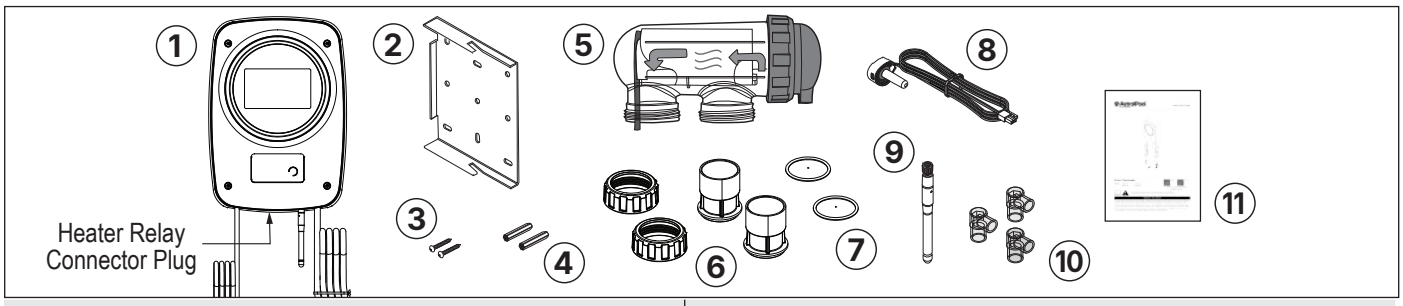
## Section 1. System Overview

AstralPool Echo is a connected saltwater chlorinator designed for everyday pool care with touchscreen control smartphone/app connectivity with FluidraPool, integrated timer control, and optional equipment control.

### 1.1 Contents

Before starting, check that you have the correct parts as indicated in the parts list table below. If any parts are missing or incorrect, please call your local distributor or technical support at 1300 186 875 for assistance.

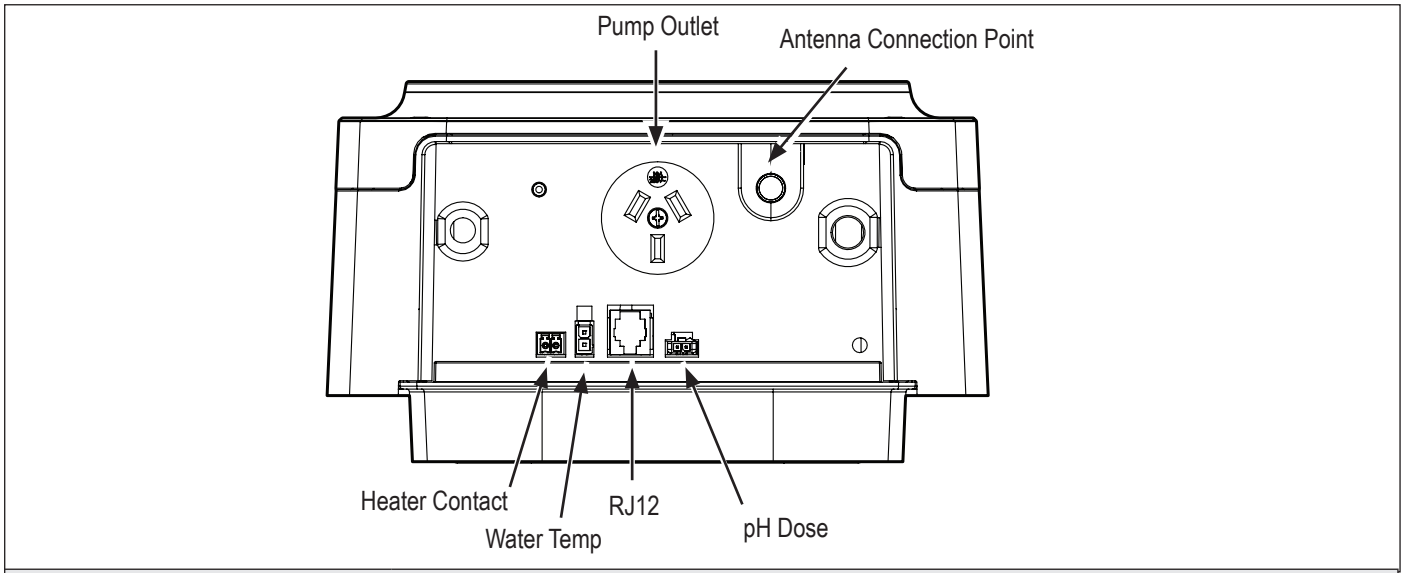
## 1.2 Echo Chlorinator




| Key | Description | Qty. | Key | Description | Qty. |
|---|---|---|---|---|---|
| 1 | Chlorinator Power Pack | 1 | 7 | O-Ring | 2 |
| 2 | Wall Mount Bracket | 1 | 8 | Water Temperature Sensor and Clamp | 1 |
| 3 | Wall Mount Screws Ø7 mm | 2 | 9 | Antenna | 1 |
| 4 | Wall Mount Anchor | 2 | 10 | Terminal Covers (2 red, 1 green) | 3 |
| 5 | Electrolytic Cell | 1 | 11 | Quick Start Guide | 1 |
| 6 | 40/50 mm Unions | 2 | | | |

**Figure 1. Echo System Components**

## 1.3 Hardware Connections




| Hardware Connections | |
|---|---|
| **Pump Outlet/Socket** | Connection for the filter pump. |
| **RJ12** | Communication connection for compatible AstralPool-supported heat pumps (using 13709 interface adaptor) and AstralPool XT variable speed pumps. |
| **Water Temp** | Connection for a 10k thermistor-style water temperature sensor. Required for temperature display, cold water protection and heating control logic where applicable. |
| **Heater Contact** | Dry contact closure for third-party heater control via the heater's remote switch or flow-switch control input (can only be used if water temp sensor is also fitted). **NOTE** The heater contact plug is already fitted in the terminal.. |
| **pH Dose** | Connection for Halo Doser pump, **NOTE** Dosing is algorithmic/sensorless rather than pH sensor controlled. |
| **Antenna** | Fit the antenna into the connection point. It helps provide strong Wi-Fi and Bluetooth connectivity. |
| **Bluetooth Connections** | |
| **Variable Speed XT Pump** | AstralPool Bluetooth-enabled variable speed pump can be connected. |
| **Halo Lite** | Lighting control is managed by pairing to Halo Lite over Bluetooth. |

**Figure 2. Echo Base Connections**

# Section 2. Installation

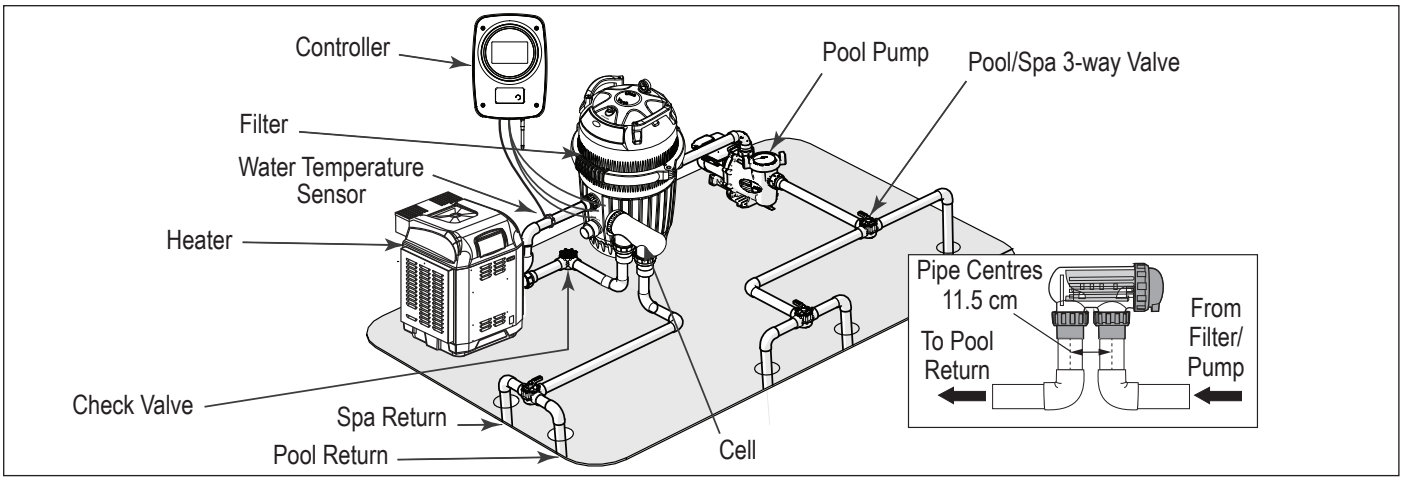



**Figure 3. Typical Installation Diagram**

The appliance shall be supplied through a residual current device having a rated residual operating current not exceeding 30 mA.

A non-replaceable backup power source is incorporated to maintain time-setting memory in the event of a short, infrequent power interruption.

## 2.1 Mounting the Controller

The controller should be located at or near the equipment pad, at least 3.5 m from the inside wall of the pool or spa, 1.5 m above ground level, and within 1.5 m of the cell. Install the controller in a well-ventilated, shaded location where practical, protected from prolonged direct sunlight and excessive heat. If installing on a post, the controller must be mounted on a 400 mm (H) x 300 mm (W) flat sheet. All applicable national, state and local codes must be observed.

## 2.2 Mount the Bracket

1. Determine the controller location.
2. Use the enclosed bracket to mark the mounting surface through the screw holes.
3. Hang bracket using the included screws. If installing on a masonry wall use the provided 7 mm wall mount anchors.
4. Hang the controller on the wall bracket and slide down to secure in place.
5. Attach the antenna to the terminal in the base of the controller.

**NOTE:** As insects can sometime be attracted to the warmth in a control power pack it is recommended that an insecticide surface spray is sprayed around the power pack at start up and on a regular basis to prevent any damage to the PCBs. Damage caused by insect ingress is not covered by warranty.

## 2.3 Pool Plumbing

The cell must be plumbed in a position that is accessible for maintenance and within 1.5 m of the controller. The cell should be the last piece of equipment in the circulation system. The cell must be installed horizontally, level and with correct flow orientation. See *Figure 3*.

1. If you intend to plumb the cell on a bypass, the bypass must be equipped with isolation valves.
2. Plumb the cell inlet and outlet on vertical lengths of PVC pipe. The cell inlet and outlet ports are 11.5 cm apart, see *Figure 3* inset. The inlet of the cell is on the side closest to the electrical lead, see *Figure 3*.
3. Put the lock nuts onto the inlet and outlet pipes in the correct orientation. See *Figure 3*.
4. Glue the unions directly onto the pipes. As the unions are ABS plastic, primer should not be applied. Use primer on PVC pipe only. Pressure glue is recommended.
5. Ensure the o-rings are seated properly on the unions.
6. Secure the cell to the plumbing by tightening the unions hand tight. DO NOT OVERTIGHTEN.
7. Double check cell orientation. The cell inlet is closest to the cell electrical lead.

The cable from the chlorinator to the cell is colour coded. Unclip the endcap from the cell and plug the cell cable wires into the cell, ensuring that the colour codes are followed, and add the correct colour silicone covers.

**⚠ WARNING**

The cell must be installed horizontally and level. Improper installation can lead to gas build up which could result in equipment damage or serious injury.

- The cell must be the last piece of equipment on the return line, See *Figure 3*.
- In order to avoid load loss, installing the cell on a bypass is **MANDATORY** if system flow rated exceeds 300 L/min.
- The bypass must be equipped with isolation valves, as well as a downstream check valve, to prevent improper back flow into the cell.

## 2.4 Other Connections

The following connectors are available on the AstralPool Echo.

| Connector | Use For |
|---|---|
| **Heater Relay** | To connect any heat pump or gas heater via the heater flow switch (or fireman's switch) or remote connection. |
| **RJ12** | All AstralPool "Genus" products (Viron® Connect 10, Gas Heaters, XT Pumps, Connect Lite, etc.), AstralPool Heat Pumps equipped with RJ45 ports for use with a heat pump interface. **NOTE:** Check heat pump for compatibility. |
| **Water temperature** | Water temperature sensor for the filter pump water circuit.<br>Ensure connection for salinity readings and accurate water temperature |
| **pH dose** | Connection for the Halo pH dose pump. |

A water temperature sensor is included with the AstralPool Echo chlorinator package. Its installation is highly recommended to ensure that you get the most benefit and take advantage of all system features.

- When installing the water temperature sensor, follow the instruction manual included with the kit.
- Ensure that the sensor is installed after the filter pump and before any heating device (if there is one installed). See *Figure 3*.

## 2.5 Connecting Other Equipment

| Equipment | Connection Method | Comments |
|---|---|---|
| **Compatible AstralPool heaters** | RJ12<br>(with or without interface adaptor) | Use RJ12 communication where supported. Heater setpoint and Heat Demand control are configured in Echo.<br>**NOTE**: All AstralPool Gas Heaters (with the exception of the IXI) do not require an interface. RJ12 cables should be wired "straight through" where the wire colors and positions match identically on both ends of the RJ12 connector. |
| **Third-party heaters<br>Heat pumps or Gas Heaters** | Dry-contact heater relay | Connect to the heater's remote switch or flow-switch input only where the heater manufacturer allows dry-contact remote operation. |
| **Halo Doser** | pH Dose 24 V DC output | Used for algorithmic acid dosing. No pH sensor is used or required |
| **Halo Lite** | Bluetooth pairing | Used for lighting control and timer/favourite integration. Up to 2 x Halo Lites can be connected for various zone control |
| **Variable speed pump** | RJ12 or Bluetooth where compatible | Set low, medium, high and priming behaviour where supported by pump type. |
| **External Controller** | RJ12 | Can be connected with an AstralPool Connect 10 control system.<br>**NOTE:** All functionality passes through to the connect 10 in this application) |

# Section 3. Operation

**⚠ WARNING**

1. Before operating the chlorinator, ensure that the circulation pump is running and water is flowing through the electrolytic cell. Do not operate the chlorinator if there is no water flow. Follow all warning messages displayed on the controller. If a fault or alarm is displayed, refer to the Owner's Manual or contact an authorised service agent. Do not attempt to disassemble or repair the appliance.
2. Before cleaning or maintaining the appliance, disconnect it from the power supply. Do not remove covers or attempt to repair internal components. Clean the electrolytic cell only in accordance with the Owner's Manual. Inspection, repair and all other electrical servicing shall be carried out only by an authorised service technician.
3. Always isolate the appliance from the electrical supply before inspecting, cleaning or servicing the chlorinator or electrolytic cell.
4. The electrolytic cell may contain scale deposits and chemical residues. Follow the cleaning instructions as noted in *Section 5, Regular Maintenance*. Never use metal tools or abrasive materials to clean the cell.
5. Avoid contact with concentrated pool chemicals. Wear suitable eye and hand protection when handling pool chemicals or cleaning the electrolytic cell.

## 3.1 Initial Setup Using the Setup Wizard

The Setup Wizard is used during initial installation to establish the basic operating profile before the Echo chlorinator moves the owner into normal Settings and Home screen operation. See *Figure 4*.

- **Power ON > Setup Wizard > Begin (1) > Set Installation Date, Time and Season (2) > Connect to Internet (3) > Select Pool and/or Spa (4) > Enter Pool Volume > Select Pool Surface (5) > Select Water Type (6)**

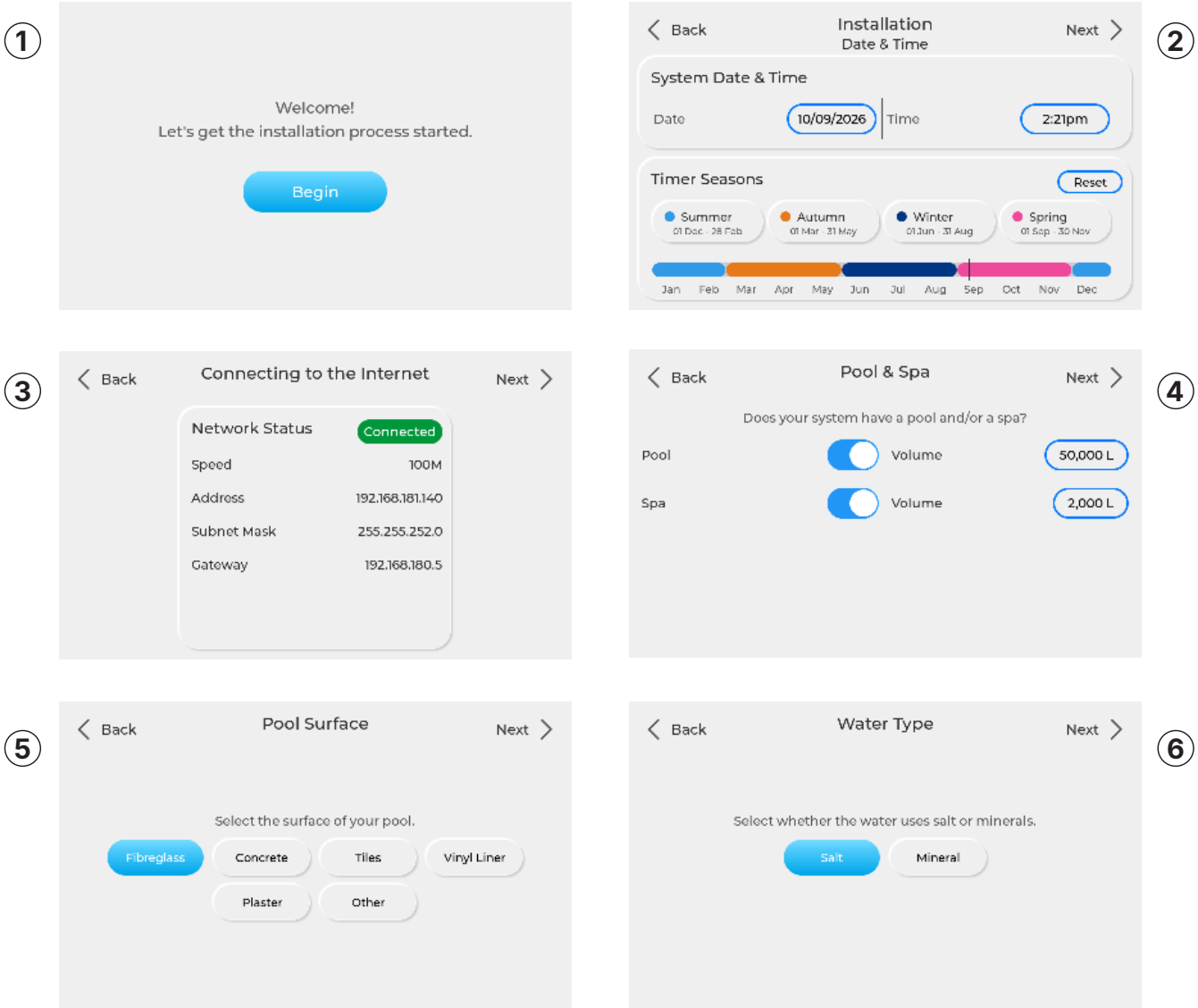



**Figure 4. Setup Wizard Steps Screens**

- Select the required language and region settings if prompted.
- **Correct date and time are important for timers, seasonal operation and event history.** Seasons can be adjusted if your climate has shorter/longer seasons. **NOTE:** This can be accessed via the settings menu later if required.
- The pool and/or spa volume **MUST** be entered as it helps guide chlorination and dosing recommendations.

## 3.2 Home Screen and Touch Navigation

The Home screen gives the owner a quick overview of pool operation and provides direct access to the main controls. The Home screen layout can visually change depending on the installed equipment.

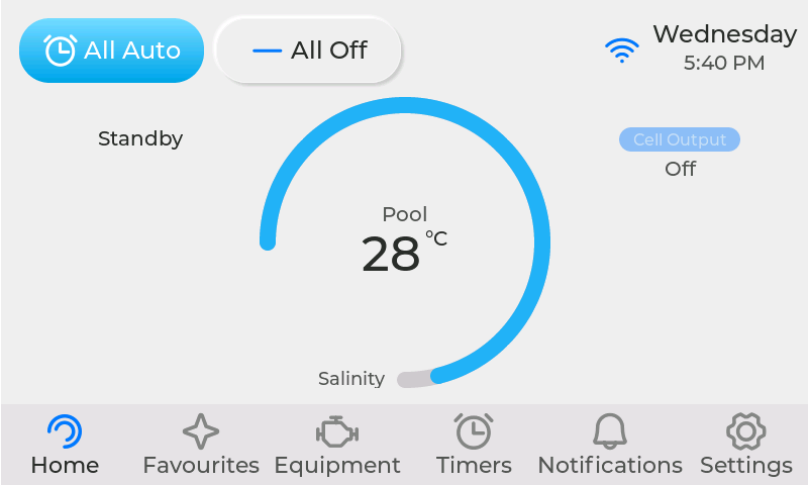



**Figure 5. Home Screen**

### 3.2.1 Home Screen Status

- The main status area shows whether Echo is sanitising, filtering, heating, in standby, in manual mode or waiting for the next timer. See *Figure 5*.
  - The left side of the screen provides the current product status (e.g., filtering, chlorinating, standby, etc.)
  - The right side of the screen shows the current status of the chlorinator cell and the operational mode (e.g., Auto, Boost, Low 50%, etc.).
- Water temperature is shown when a temperature sensor is installed. Temperature may be greyed out when the pump is off and water is not being sampled.
- Quick access buttons for "All Auto" and "All Off" are located across the top of the screen, with full menu access ribbon at the bottom of the screen
- If any system warnings or notifications are present, it will appear in the "Notifications" section with a small number pop up.
- The large stylized O (circle) on the Home screen represents the approximate salinity of the pool water (only if the tempature sensor is fitted). This will stay blue if the salinity is within range. If this coloured area "retracts" and turns orange/red, it indicates that the salinity is *too low* and salt/minerals need to be added. If the area remains fully coloured and turns red, it indicates that the salinity is *too high* and the water may need to be diluted with fresh water. **NOTE:** These values are approximations only and do not substitute for a proper water sample test.

### 3.2.2 Navigation Buttons

| Control | Purpose |
|---|---|
| **Home** | Is the main dashboard to view current status of device and attached equipment. |
| **All Off / All Auto** | These buttons place all controllable equipment OFF or return all equipment to automatic operation. |
| **Notifications** | Shows warnings or errors that have occurred and need reviewing. |
| **Timers** | Opens timer schedules for filtration/sanitisation, lighting, heating and other configured equipment. |
| **Favourites** | Opens one-touch scenes such as evening swim, spa mode, or lights only. |
| **Settings** | Opens Configuration, Information, Maintenance, Notifications, FluidraPool and Update menus. |

## 3.3 Adding and Configuring Equipment

Additional equipment can be added as shown in the path below. Only equipment that has been added can be configured, and will appear on the Home screen, Timers screen and Favourites screen. See *Figure 6* (1).

- **Settings > Connected Devices > Add Device or + > (choose equipment type) > (follow pairing, wiring or parameter prompts to configure equipment)**

Once connected, configure the equipment by going to **Settings > Equipment Configuration** to set certain features and parameters to suit the equipment. See *Figure 6* (2).

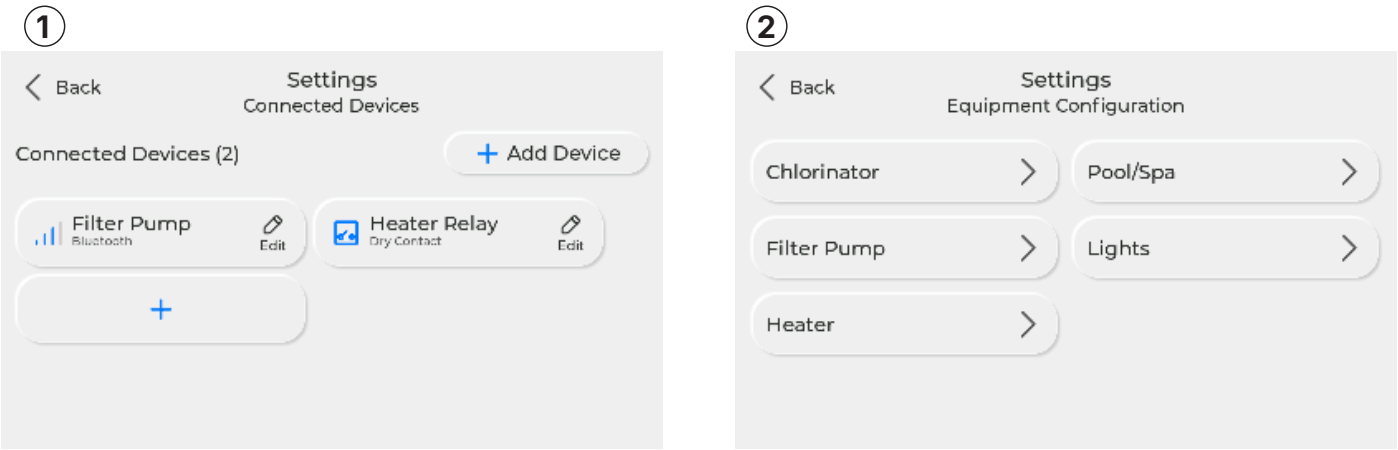
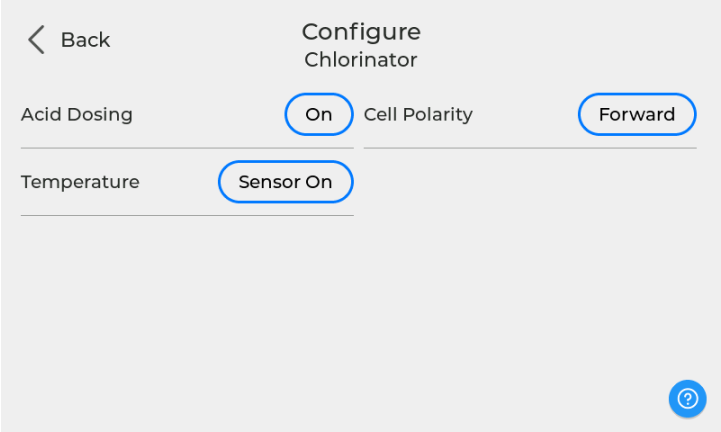



**Figure 6. Equipment Configuration Screens**

### 3.3.1 Chlorinator Configuration




| • **Settings > Equipment Configuration > Chlorinator > (turn ON or OFF Acid Dosing, change Cell Polarity forward or backward, and turn temperature sensor ON or OFF). See *Figure 7*.** | |
|---|---|
| **Acid Dosing (if doser connected)** | Select to turn ON/OFF the doser pump, set a daily limit on the amount of acid added, and flush the line after timers have finished if needed (recommend to enable) |
| **Temperature Feat. Cold Water Protect** | Turn the temperature sensor ON/OFF (if fitted). Enable cold water protect which reduces output as water temperature drops to protect operation and avoid unnecessary output. Additionally, you can offset the temperature sensor if it appears to be out of alignment |
| **Cell Polarity** | Change the cell polarity to initiate a reversal period, if needed, to help descale the electrode. **NOTE:** Excessive use of this feature can reduce the electrode life. |

**NOTE:** This feature becomes active once the temperature drops to 15°C and lower , helping to avoid unnecessary output during low-demand cold-water conditions.

**Figure 7. Chlorinator Configuration Screen**

### 3.3.2 Pool and Spa Configuration

Use the Pool/Spa configuration to define whether the Echo chlorinator controls a pool, spa or combined pool/spa installation. **Enter water volumes carefully** because they help guide timer, chlorination and dosing recommendations. You can also adjust surface type or water type here. See *Figure 4* (5, 6) and *Figure 8*.

- **Settings > Equipment Configuration > Pool/Spa > (turn ON or OFF Pool and/or Spa) > (Enter volume in Litres using numeric buttons and press Save)**

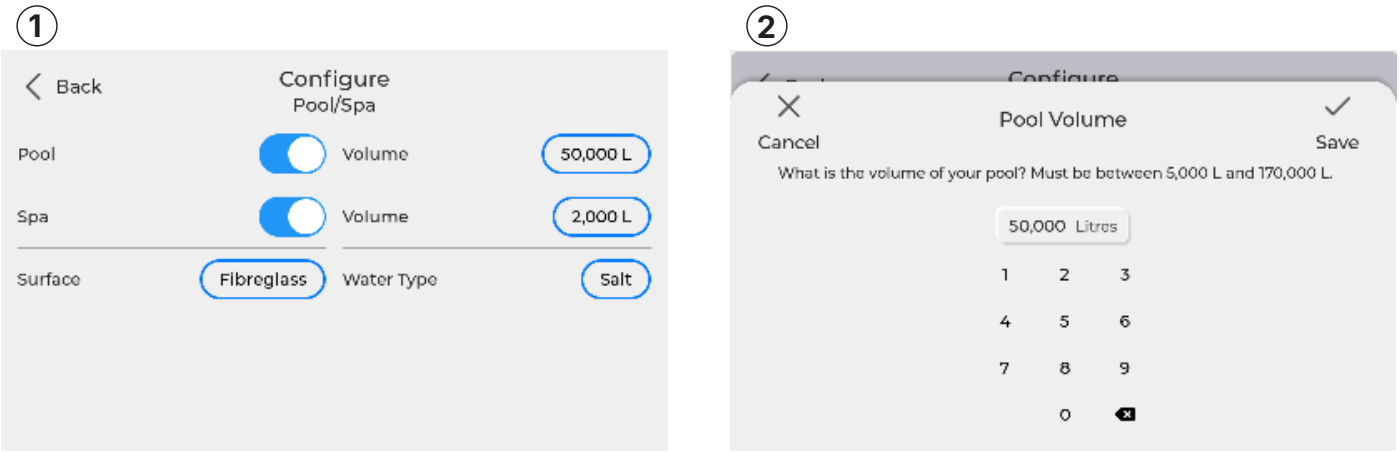
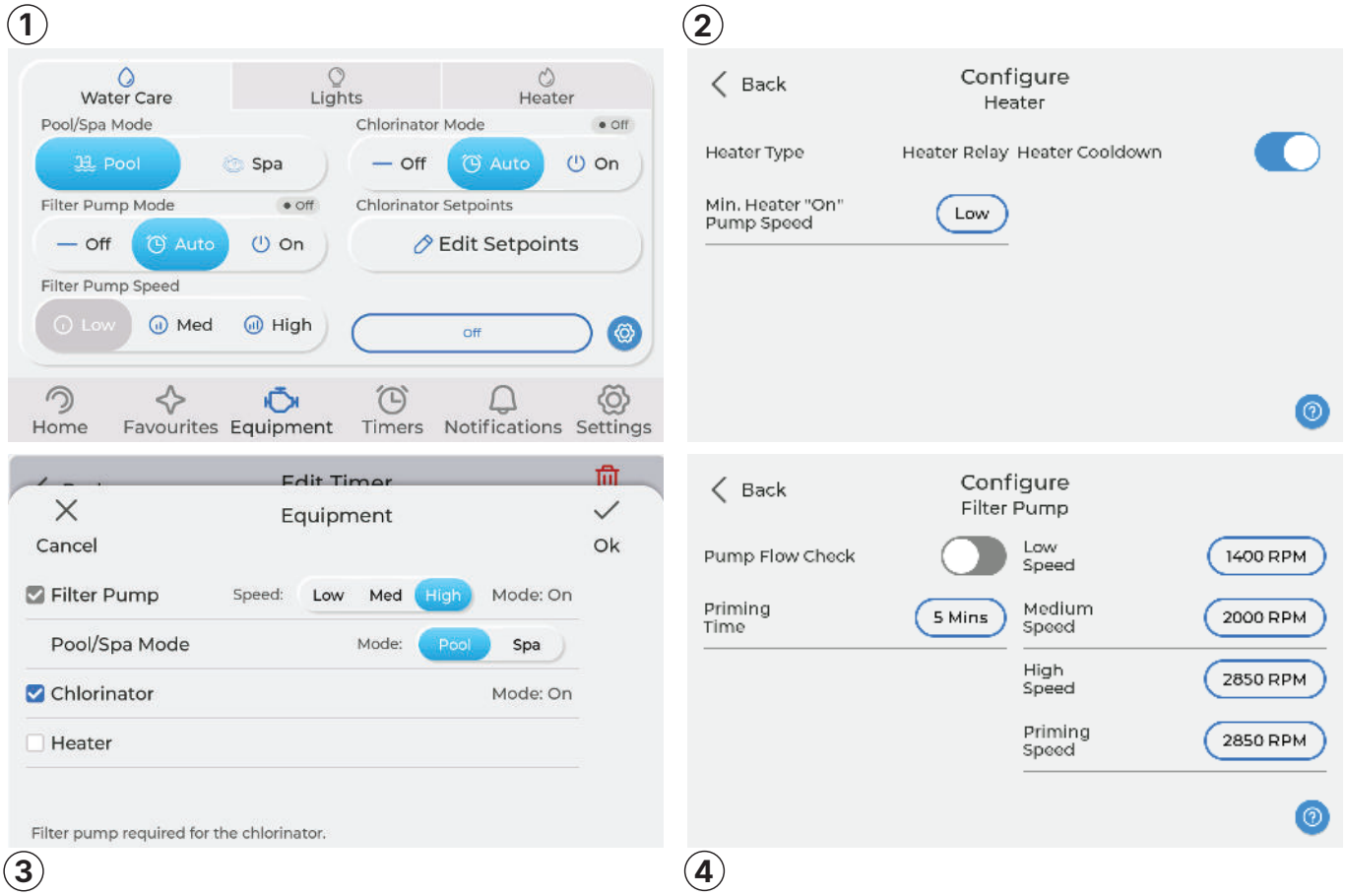



**Figure 8. Pool and Spa Configuration Screen**

### 3.3.3 Filter Pump Configuration

The Echo chlorinator can control a standard single-speed filter pump from the pump outlet. When a compatible variable speed pump is used, Bluetooth or an RJ12 cable communication allows Echo to set and select speeds through Water Care (1), Heating logic (2), Timers (3), Equipment Configure (4) and Favourites.



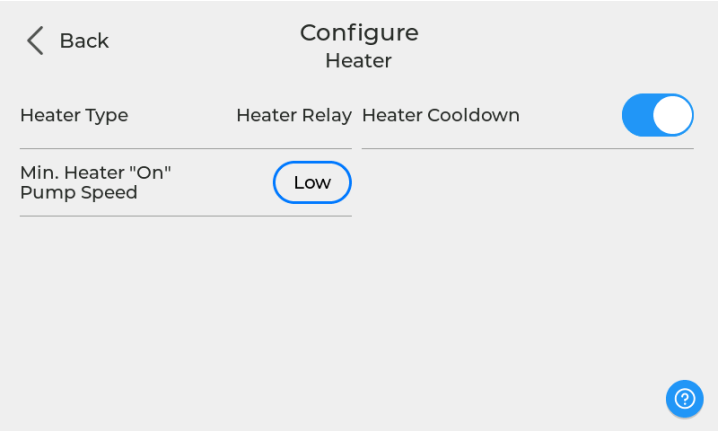

| | |
|---|---|
| • **Settings > Equipment Configuration > Filter Pump > (set Priming time, low/medium/high/priming speeds, turn pump flow check ON or OFF) to set the filter pump. See other menus for further settings associated with other equipment.** ***See Figure 9 above.*** | |
| **Single speed pump** | Echo switches the pump ON and OFF through the pump outlet. |
| **Wired or BT connected variable speed pump** | Connect communication cable where supported and configure available speeds. |
| **Pump Speeds** | Configure the speed settings to suit everyday operations. Refer to the pump manual for further information. |
| **Priming Time** | Set priming time to suit the pool requirements. |
| **Pump Flow Check** | Enable to prevent pump running dry. **NOTE:** It is recommended to always be ON. |

**Figure 9. Filter Pump Configuration Screen**

### 3.3.4 Heater Configuration

Echo supports heater control through two pathways: RJ12 communication for compatible heaters and a dry-contact heater relay for third-party heaters that accept remote switch or flow-switch control. See *Figure 10*.

**NOTE:** When a Heater Relay is used, the setpoint on the heater should be set to maximum to allow Echo to control the temperature directly. If the sepoint on the heater is set lower than the setpoint on Echo, The pump will run to provide flow to the heater, however, the heater will not activate to provide heat as it believes it has already achieved the target.

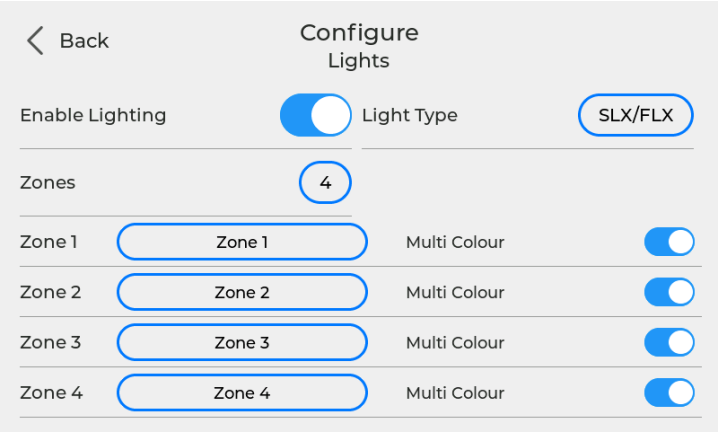



| • **Settings > Equipment Configuration > Heater > (show heater type, toggle heater cooldown ON/OFF, and select pump speed when heater is ON)** | |
|---|---|
| **Heater Cooldown** | Allows for the filter pump to run for 5 minutes after the heater is OFF to pump cooler water through the filtration system. **NOTE**: Highly recommended to use with gas heaters. |
| **Min heater 'On' pump speed** | Ensures that during heater operations, the ideal speed setting is selected to prevent any flow or heater errors. |

**Figure 10. Heater Configuration Screen**

### 3.3.5 Light Configuration

Echo controls compatible pool lighting through Halo Lite. See *Figure 11*. Pair Halo Lite to the Echo chlorinator over Bluetooth, then assign lights or zones so they can be included in Timers and Favourites. A maximum of 2 Halo Lites can be attached. See the Halo Lite manual for more information.




| • **Settings > Equipment Configuration > Lights > (toggle enable lighting ON/OFF, select lighting type, set zones with custom names and multicolour lighting if used)** | |
|---|---|
| **Enable lighting** | Toggle ON/OFF to prevent lights showing in the menu settings if desired. |
| **Light Type** | If multi-colour lights are used, choose either AstralPool SLX/FLX or Zodiac Lumipower sequence/colour selections. Set to single Colour if standard single-colour only lights are used. |
| **Zones** | Echo can connect up to 2 Halo Lites to allow for 2 distinct zones of operation. Select the amount of Zones required. A custom name can also be added for a zone ( e.g., Pool Lights, Spa Lights, Garden Lights etc.). A muticolour lights selection allows a selected colour or sequence to be used when the Timer is set. **NOTE:** All lights connected to the same Halo Lite will always be part of the same zone. |

**Figure 11. Light Configuration Screen**

## 3.4 Setting Timers and Seasonal Operations

Once all of your equipment has been connected and configured, Timers can be set to control when the Echo chlorinator filters, sanitises, and operates the connected equipment. See *Figure 12* and *Figure 13*. Each timer can be used for sanitisation or pump-only operation and can include connected equipment such as heater and lights where configured. Timers can overlap as long as there is no conflict in the operation of any of the equipment. If there is an issue, a warning symbol ⚠ will appear and the colour of the timer window will change to orange or red indicating that assistance or a change in setup is required.

**NOTE:** More information can be viewed on the device by pressing the "?" icon.

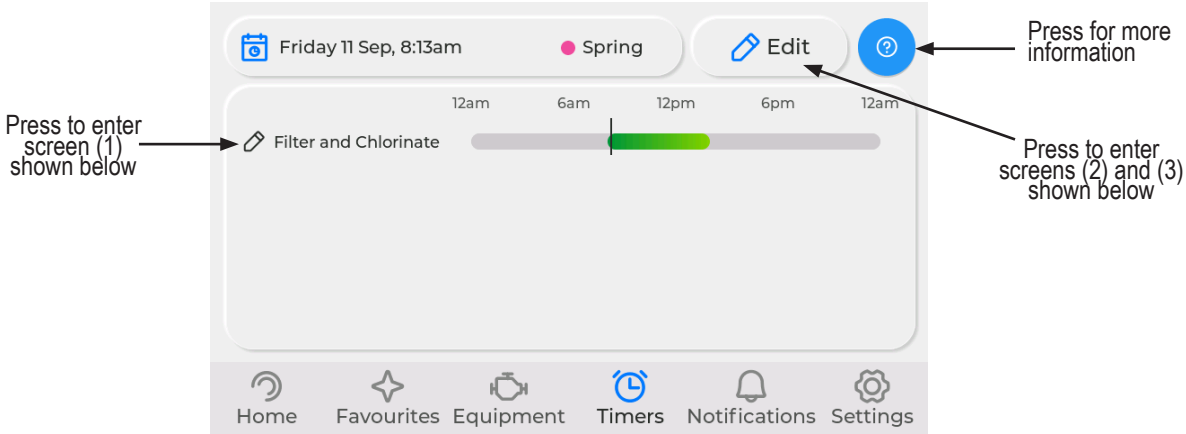



**Figure 12. Main Timer Screen**

### 3.4.1 Creating and Editing a Timer

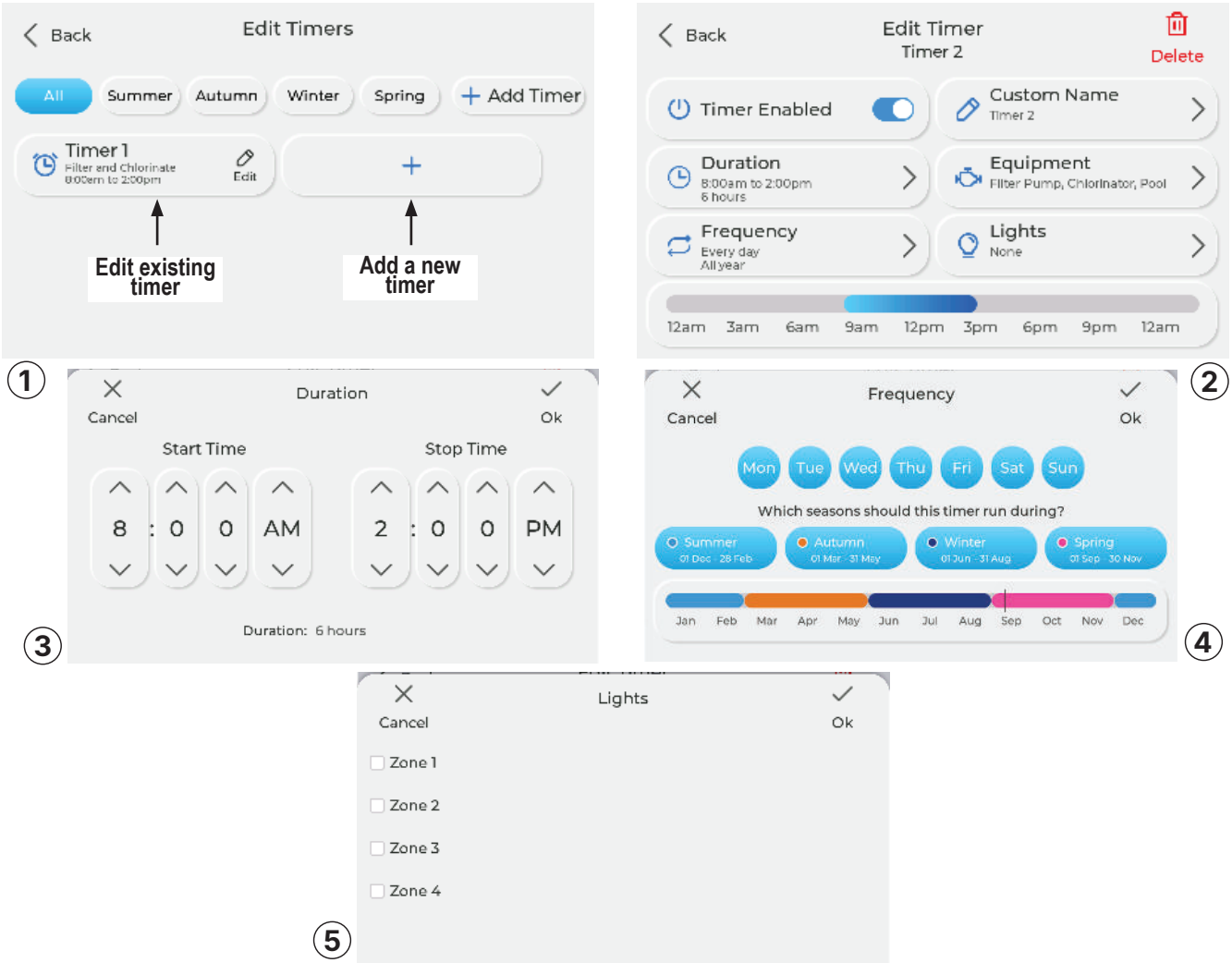



**Figure 13. Timer Setting and Editing Screen**

| • **Timers > Edit (for screen 1) > + to create a new timer (for screen 2) > (turn timer ON/OFF, add a custom timer name, set the duration, select the filter and chlorination equipment, set the frequency and season, and turn check to turn light zones ON/OFF).** | |
|---|---|
| **Duration (see *Figure 13* screen 3)** | Select how long this operation should last (**AM and PM applies**) |
| **Equipment**<br>**See *Section 3.3.3, Filter Pump Configuration*** | Select what equipment to operate in this timer window, and the speed for the filter pump (if a variable pump is attached).<br>**Special Note:** The filter pump can operate independently from the chlorinator. If a longer filtration time is desired, uncheck the chlorinator box. This will prevent chlorination during this time. Additionally, chlorination **CANNOT** happen unless the filter pump is running. |
| **Frequency (see *Figure 13* screen 4)** | Select the days and seasons you want this timer to operate in this behaviour.<br>See *Section 3.4.2, Seasons* for more information. |
| **Lights (see *Figure 13* screen 5)** | Check to operate lights with any of the timer windows and the selected zones if desired |

### 3.4.2 Seasons

Seasonal operation lets the owner adjust timers for different parts of the year without rebuilding the pool schedule each time. This is useful in regions where summer and winter swimming patterns are very different, and allows the system to be customised to suit the individual needs of the pool owner.

- **Settings > Date & Time > Timer Seasons (set Summer, Autumn, Winter and Spring (1) start dates (2) - press Save for each)**

1. In the timer settings: Assign the relevant season for the operation of the equipment and, simply press the season to toggle it ON/OFF to suit. See *Section 3.4.1, Creating and Editing a Timer* for more information.
2. Review the timer overview to confirm which timers are active for the current season.
3. The timer screen will show the seasons and days selected in blue for the selected timer. See *Figure 13* screen 4.

Temperature Demand (also known as Heat Demand) allows the Echo chlorinator to maintain water temperature during a nominated heating window, even when standard filtration timers are not running. During this time, Echo periodically runs the selected pump to sample the water temperature. If heat is required, Echo activates the heater until the setpoint is reached.

- To set a timer for the Temperature Demand in the timers section, select the check box for the filter pump and heater, then toggle the Temperature demand slider ON. See *Figure 14* screen 3.
- If this selection operates outside of normal sanitisation timers, Echo will not produce chlorine during that temperature sampling period. **NOTE:** It is recommended to uncheck the chlorinator setting in this timer window. See *Figure 14* screen 3.

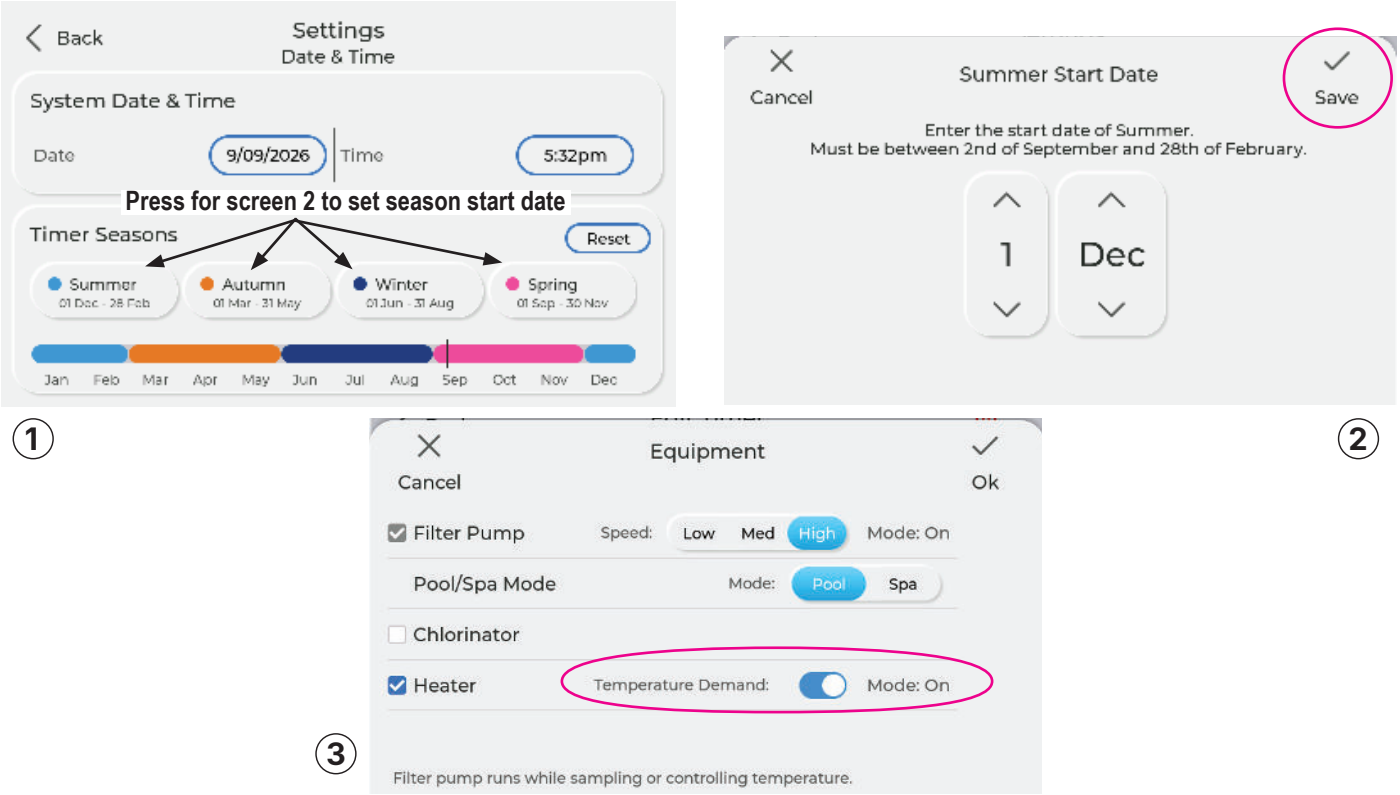



**Figure 14. Date, Time and Seasons Settings Screen**

## 3.5 Equipment

The Equipment menu shows all connected devices across the top of the screen. If a device or setting needs to be controlled directly, it can be accessed from this menu. Each device has various control features displayed in each window.

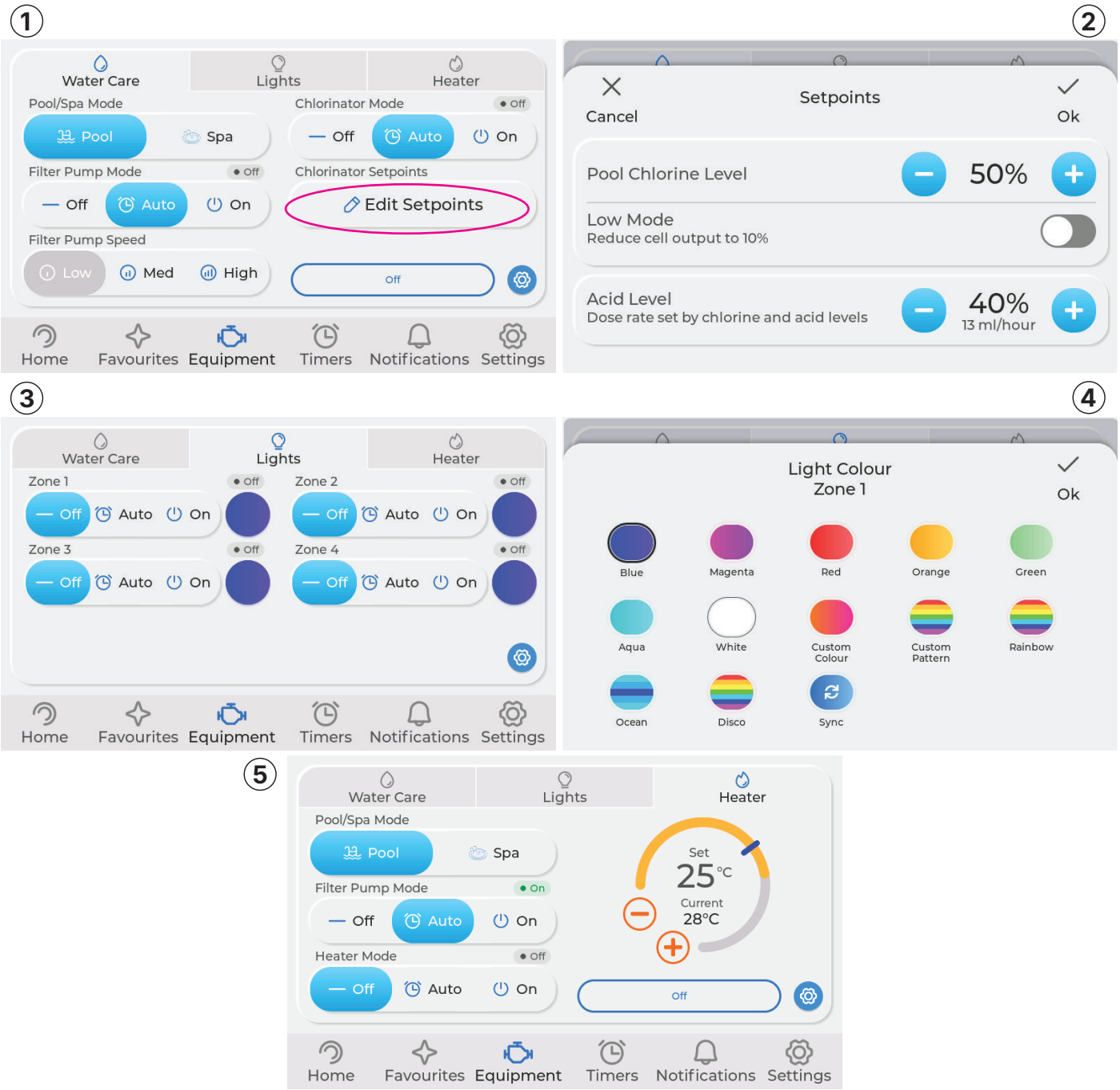



**Figure 15. Equipment Setting and Control Screen**

| • **Equipment > Water Care > (set pool/spa/chlorinator modes, select filter pump speed and chlorination set point). Read details below.** | |
|---|---|
| **Watercare**<br>**See *Figure 15* screens 1 and 2** | Directly control the filter pump or chlorinator, including pump speeds, chlorinator set points and setting the selected device into **ON/OFF/AUTO** mode.<br>Press **Edit Set Points** to access the chlorine output (0 – 100%) and low mode.<br>**NOTE:** If low mode is selected, it will stay in this mode until the user changes the setting. This mode is ideal if a pool cover is being used.<br>If a Doser is attached, fine tuning of the amount of acid delivered can be changed here. |

| | |
|---|---|
| • **Equipment > Lights > (set light zones to ON/OFF/AUTO and chose light colors if multicolour lights are installed). Read details below.** | |
| **Lights**<br>**See *Figure 15* screens 3 and 4** | If lights are in use, changing colours and sequences can be accessed here. Simply press the coloured dot and then select. **NOTE:** Once this colour/sequence is set, it will be used if the lights are active. Lights settings have operational status of ON/OFF/AUTO with the active setting highlighted in blue. |
| • **Equipment > Heater > (set pool/spa, filter pump and heater modes, as well as heater temperature). Read details below.** | |
| **Heater**<br>**See *Figure 15* screen 5** | If a heater has been connected and configured, setting/changing the temperature and the operational modes can be accessed through this menu.<br>If an AstralPool heat pump connected with a heat pump interface is installed, accessing heat mode as well as cooling mode is now provided as an option. |

## 3.6 Favourites

Favourites provide one-touch control of any connected equipment as desired. A favourite can switch the pool or spa into a chosen operating state, change pump mode, turn on lighting, and enable heating when configured. A maximum of 4 Favourites can be configured

### Activate Favourite

- **Settings > Favourites > + (add device) > Custom Name (type in name and save) > Custom Icon (select and save) > (choose equipment type) > (follow pairing, wiring or parameter prompts to configure equipment)**

### Edit Favourite

- **Settings > Favourites > Edit > (choose equipment type) > (follow pairing, wiring or parameter prompts to configure equipment)**

| *Some examples of favourites are:* | |
|---|---|
| **Evening swim** | Filter pump on, lights on, heater enabled to setpoint. |
| **Spa night** | heater on, lights set to preferred scene, filter pump at required speed. |
| **Lights only** | Halo Lite on, filtration remains under normal automatic control. |

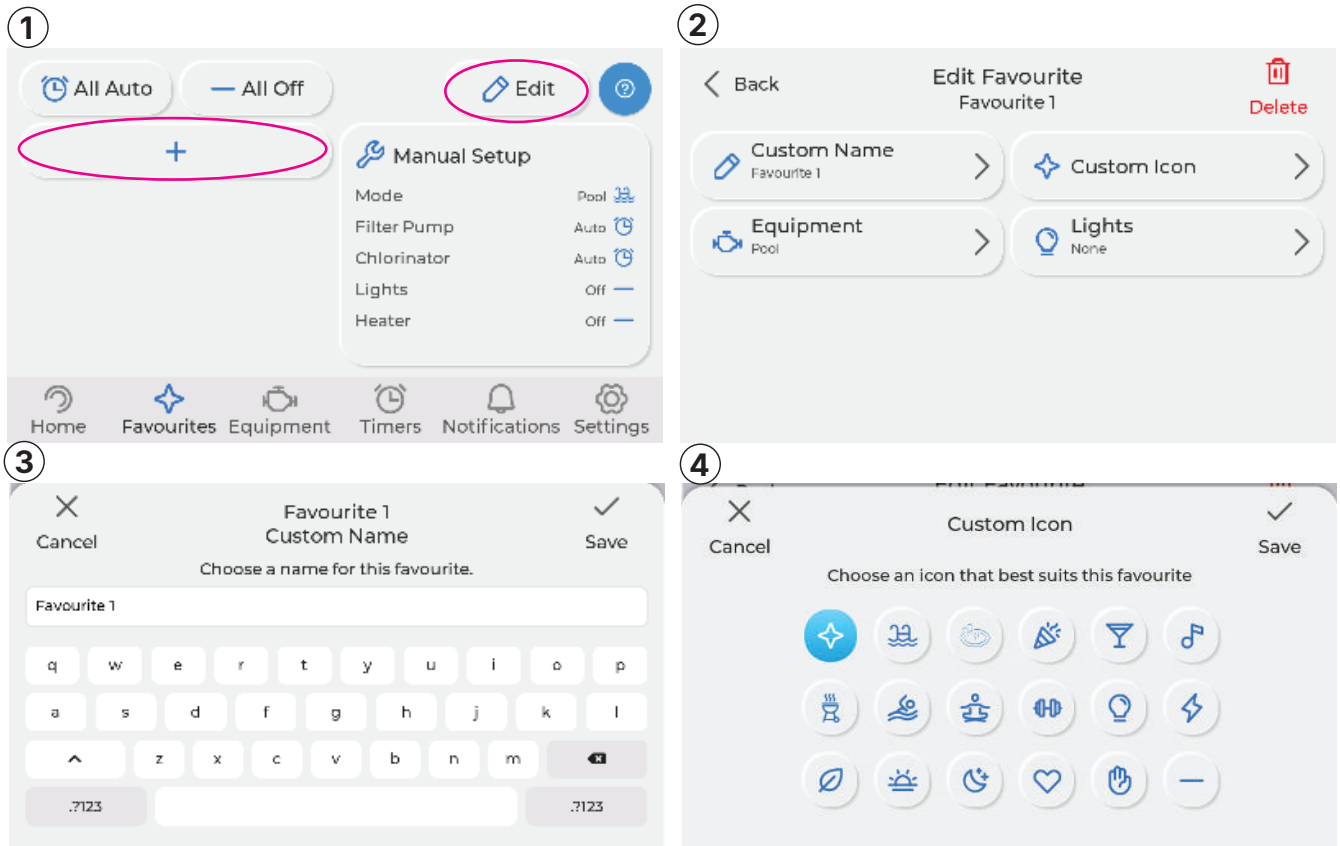



**Figure 16. Favourites Adding and Editing Screens with Custom Names and Icons**

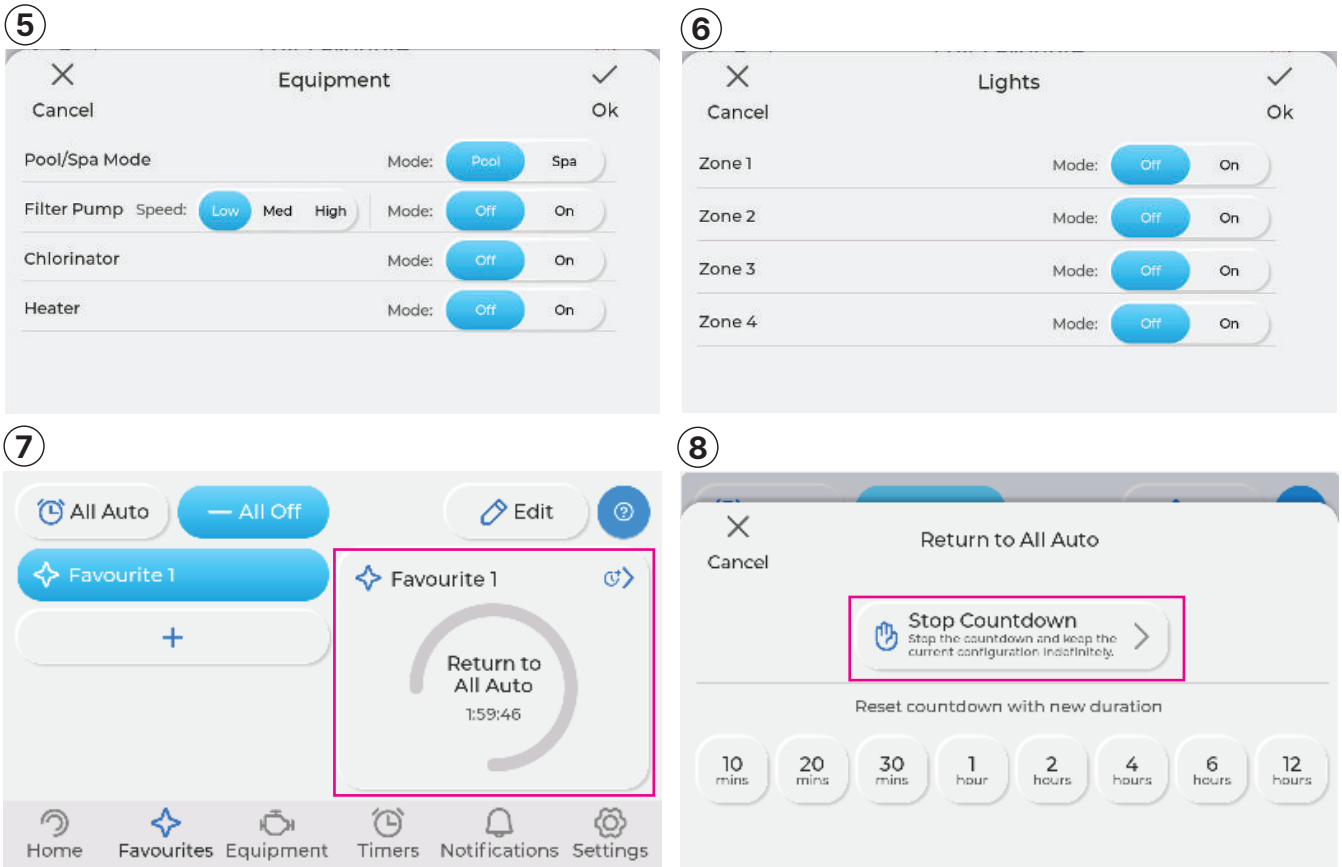



**Figure 17. Favourites Equipment and Lights Screens**

**NOTE:** Once a favourite is operating, it has a default time of 2 hours before the system reverts back to "All Auto".

However, this can be changed by pressing the large Favourite tile in this setting. A selection now appears of between 10 minutes and 12 hours to suit the desired operation. The favourite can also be stopped immediately here by pressing 'Stop Countdown' which will halt the selected favourite from operating and revert back to previous mode. See *Figure 17* screens 7 and 8.

## 3.7 Settings Menu

The Settings menu provides access to product information, date and time, equipment configuration, maintenance features, connectivity, software updates and notifications.

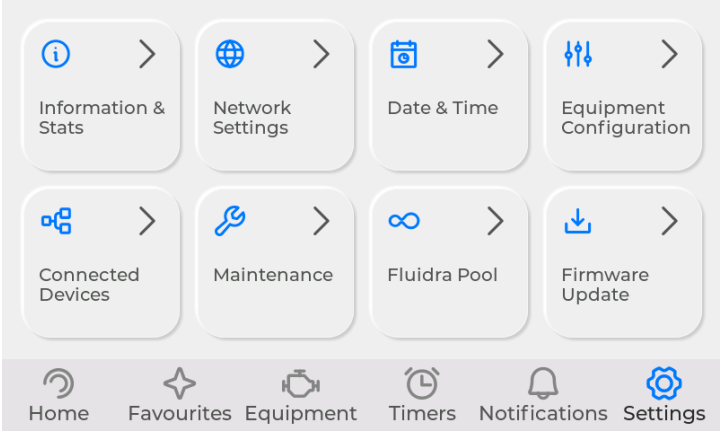



**Figure 18. Settings Main Screen**

### 3.7.1 Info and Stats

Info and Stats shows device-level information that may assist the owner, dealer or service technician.

- Model and serial information.
- Power board and user panel firmware versions.
- Cell run hours and reversal count.
- Power pack run hours.

- Recent operating history, including run times, cell output settings, and connected equipment status where available.
- Network, Bluetooth and cloud connection state where available.

### 3.7.2 Network settings

Network settings allows the user to connect the device to the internet. This is highly recommended as it keeps the device up to date with any new features. All updates are automatically downloaded between 2-4 am. To connect to the home internet, press **Settings > Network Settings > Configure WiFi**, find the correct SSID and follow the prompts to set up the system.

### 3.7.3 Date, Time and Season Adjustment

Correct date and time are required for timers, seasons, event history, and automatic behaviour. Date and time may be set manually or updated through the FluidraPool app where supported.

- Set local time and date during installation.
- Use season adjustment to align timers with local swimming patterns, climate, and daylight saving changes.
- Review season start and finish dates at the beginning of each swimming season.

### 3.7.4 Equipment Configuration

Equipment Configuration is used to add, remove and adjust connected equipment. Each device has its own parameter settings. These settings determine what appears on Home, Timers and Favourites screens.

| Device | Key Settings |
|---|---|
| **Chlorinator** | Cell model, output level, salt/mineral mode, reversal period, cold water protect and salinity estimate settings. |
| **Pool/Spa** | Pool only, spa only or pool/spa mode, water volumes and related operating behaviour. |
| **Filter pump** | Pump type, speeds, priming, pump-only operation and interlocks where supported. |
| **Lights** | Halo Lite pairing, lighting zones and favourite/timer availability. |
| **Heater** | RJ12 or dry-contact heater setup, target temperature, pump requirement and Heat Demand windows. |
| **Halo Doser** | Sensorless dosing level, prime, dosing pause and manual dosing functions. |

## 3.8 Maintenance

Maintenance functions are designed for short-term manual tasks. Some maintenance actions require the owner or technician to be physically present at the equipment.

| Feature | Purpose |
|---|---|
| **Boost** | Runs sanitisation at 100 percent output for an adjustable period (between 1 to 48 hours) then returns to automatic operation. It can be aborted at any time during the cycle. |
| **Filter** | Runs the filter pump for a selected period (between 1 to 48 hours) without producing chlorine. It is useful for circulation, startup, adding salt or water balancing. It can be aborted at any time during the cycle. |
| **Backwash** | Runs a backwash cycle, which runs the pump for selected period of time (between 1 to 15 minutes). It can be aborted at any time during the cycle. For reference, refer to your filter manual for additional information on conducting a backwash. |
| **Acid Dosing** | |
| **Acid Prime** | Runs the Halo Doser pump for 30 seconds to fill dosing lines after replacing an acid drum or servicing the tube. |
| **Dosing Off** | Pauses acid dosing indefinitely or for a set period (between 1 min to 24 hours), such as during maintenance or after alkalinity correction. |
| **Manual Dose** | Allows a measured manual acid dose where supported. Filter pump behaviour can be selected after dosing (on/off/auto) |

# Section 4. FluidraPool App, Echo Firmware and System Status

## 4.1 Connect to the App

This section explains how to download the Fluidra Pool app, create or access your account, create your pool, and add your first connected device by scanning the QR code on the touchscreen. See *Section 4.1.3, Add a device using the QR code* for more information.

### 4.1.1 Download the Fluidra Pool app

To start using your connected pool equipment, download the Fluidra Pool app on your mobile phone.

**Steps:**

1. Open the App Store if you use an iPhone, or Google Play if you use an Android phone.
2. Search for “FluidraPool”.
3. Select the FluidraPool app.
4. Tap Install or Get.
5. Once the installation is complete, open the app.

### 4.1.2 Sign up or sign in

When you open the FluidraPool app for the first time, you need to access your account.

**If you already have an account:**

1. Tap Sign in.
2. Enter your email address and password.
3. Tap Sign in to access the app.

**If you do not have an account yet:**

1. Tap Sign up.
2. Enter the required personal information.
3. Create a password.
4. Accept the Terms and Conditions and Privacy Policy.
5. Check your email inbox and open the confirmation email.
6. Enter the verification code provided in the email.
7. Confirm the account creation in the app.
8. Sign in with your new account.

After signing in, the app will invite you to either create a new pool or add an existing pool shared with you.

1. If you want to create a new pool:
2. Tap Create pool.
3. Enter the pool name.
4. Complete the requested pool information, such as:
   - Pool type
   - Pool dimensions
   - Construction year
   - Water treatment type
   - Disinfection method
   - pH regulation type
5. Review the information entered.
6. Tap Save or Continue.

Once the pool is created or added to your account, it will appear in the My Pool dashboard. This dashboard provides an overview of the pool status and shows relevant information depending on the connected equipment installed.

### 4.1.3 Add a device using the QR code

After creating your pool, you can add connected equipment to the FluidraPool app.

Before starting, make sure that:

- The product is installed and powered on.
- Your mobile phone has internet connection.
- Bluetooth is enabled if requested by the app.
- You are at the Echo Chlorinator during the pairing process.

**Steps:**

1. Go to the Settings section in the bottom menu.
2. Tap FluidraPool.
3. This will reveal the QR code required to scan via the FluidraPool app.
4. Open the FluidraPool app and go to **Equipment > Add Equipment**.
5. Point the camera at the QR code on the screen.
6. Wait until the app detects the QR code.
7. Follow the instructions displayed on the screen.
8. Complete the provisioning process.
9. When the device is successfully added, it will appear in the Equipment list.

After the device is added, you can open its dedicated dashboard from the Equipment section,where all of the equipment now connected to your Echo chlorinator (i.e. lights, heater, watercare, etc.) and any settings just configured through the FluidraPool App will now show.

### 4.1.4 If the QR code cannot be scanned

If the app cannot scan the QR code, try the following actions:

- Make sure the QR code is clean and not damaged.
- Improve the lighting conditions.
- Move the phone closer or further away from the QR code.
- Check that the camera lens is clean.
- Restart the app and try again.

### 4.1.5 Setup completed

Once the device has been added, the FluidraPool app can start showing equipment information, alerts, and recommendations depending on the product connected.

## 4.2 Firmware Updates

The Echo chlorinator is designed to update firmware automatically when updates are available and the device is connected to the internet. The update screen also shows device-level software versions for the power board, user panel and connected components where applicable.

- Keep Echo connected to Wi-Fi to receive available updates.
- Do not switch off power during an active firmware update unless instructed by the product or support team.
- Use Info and Stats to view firmware versions when speaking with technical support.
- After an update, review timers, favourites and connected equipment if it is recommended in the update notes.

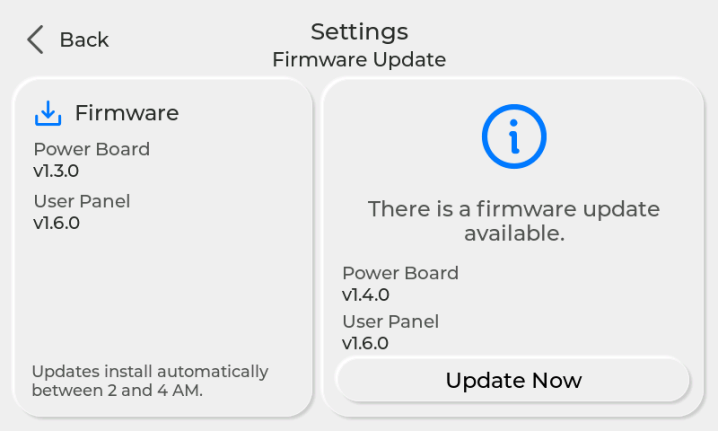



**Figure 19. Firmware Update Screen**

## 4.3 Notifications and LED Status

Notifications alert the owner to issues that require acknowledgement, correction or service attention. The Echo status O (circle) provides a quick visual cue without needing to open the app or walk through menus.

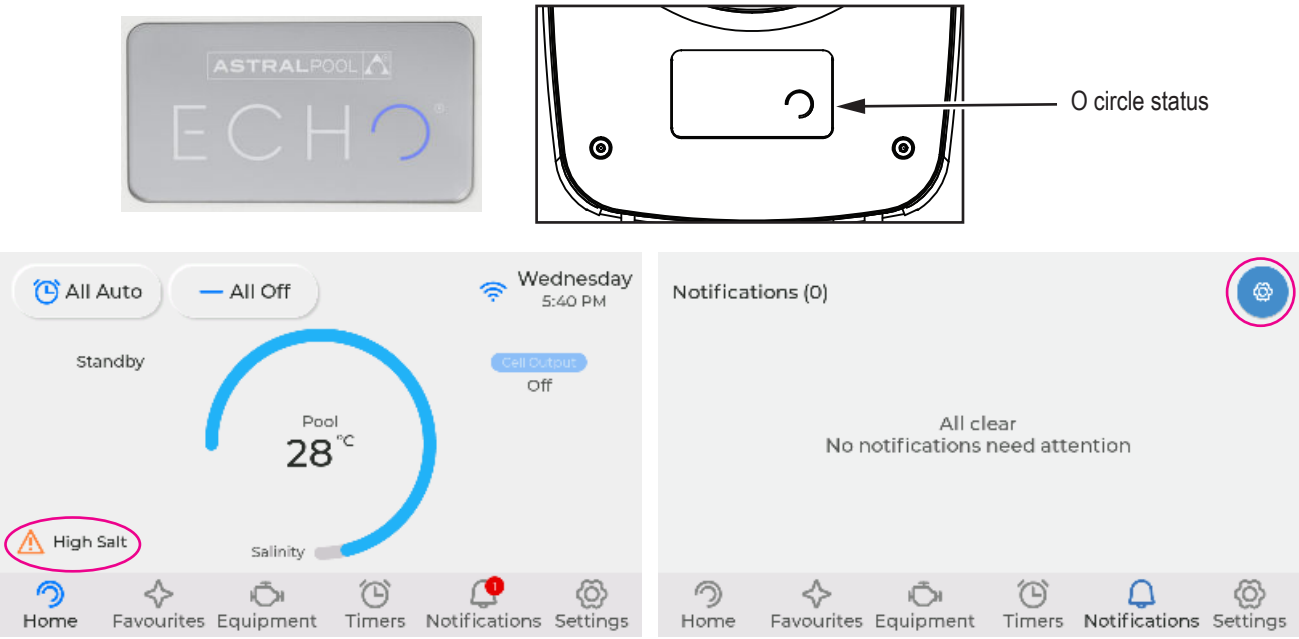



**Figure 20. Notification Screen**

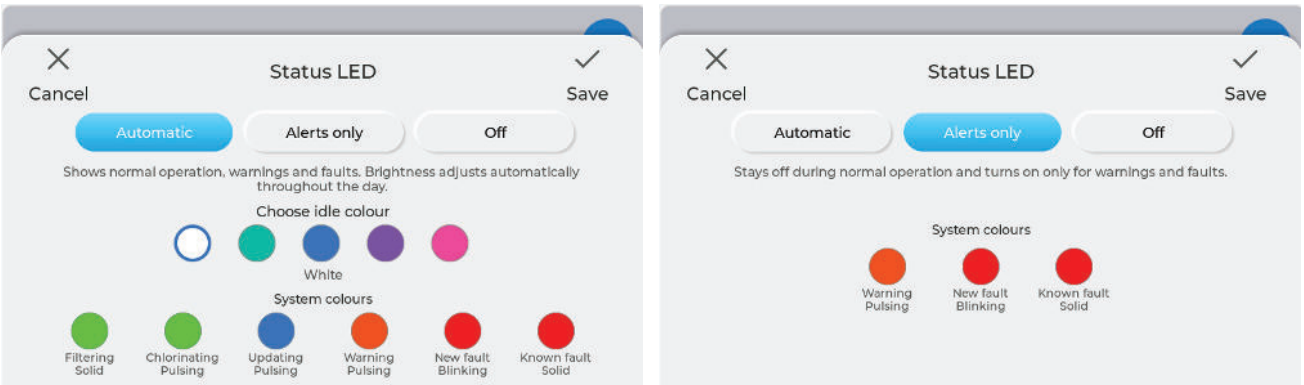



**Figure 21. Status LED Settings Screens**

## 4.4 Notification Types

| Notification Level | Owner Action |
|---|---|
| **Information** | General status message. Acknowledge if required. |
| **Attention** | An operating condition needs correction (e.g., low salt, no flow, equipment communication issue or timer conflict). |
| **Update** | Software update available, update in progress, or update completed. |

## 4.5 Backlit Product Badge LED Status

The stylized O (circle) on the external product badge changes colours depending on the product status. See the badge image in *Figure 20*. In the notifications settings, these alerts can be changed to suit the user needs. Press the Settings icon in the top right corner of the screen to access. See the circled icon in *Figure 20*.

Automatic operation features a full spectrum of colours with their definitions shown below. The user can select a desired 'idle colour' from a small selection (system default is white). The alert colors indicate the system-assigned colours with definitions for status notifications.

There are 3 selections: 1) Automatic shows the user all notifications in normal operation, 2) Displays notification only when there is an alert, or 3) No notifications (user must change to turn ON again).

| LED State | Meaning |
|---|---|
| **Green: solid/pulsing** | Normal operation. Echo is operating without active warnings, filtering and/or chlorinating |
| **Orange/Red: Solid/pulsing** | Attention required. Open Notifications to review and correct the issue. |

# Section 5. Regular Maintenance

Regular maintenance keeps the Echo chlorinator and connected equipment operating correctly. Water chemistry should be tested regularly and adjusted according to pool professional advice and the requirements of the pool surface and equipment.

- Maintain the operating salinity at the ideal level of 4000 ppm (at 25° C).
- Inspect the cell periodically and clean only according to approved cell cleaning instructions.
  - When cleaning the electrode, it is imperative that the following steps are carried out:
    - Remove and inspect the electrode for any calcium deposits;
    - If build up is present, place the electrode in cleaning solution. **DO NOT** immerse the terminals and always use recommended cleaning solution;
    - Allow 10 mins for cleaning solution to work, then brush off any excess deposits. **DO NOT** use any metal object to clean the electrode plates.
    - Rinse under water and install the electrode back into the cell housing.
- Check pump, filter and flow performance if Echo reports low flow or reduced output.
- Check acid drum level and all tubing connected to the Halo Doser.
- Review timer settings at the start of summer and winter.
- Keep the area around the controller clean and free from insect nests, debris, and chemical fumes.

| Timing | Maintenance Check | Service Action If Required |
|---|---|---|
| **Weekly or sooner** | Check Cell for calcium buildup | Soak electrode in mixture of 10 parts water to 1 part acid. Use a soft brush only if required. |
| | Check water chemistry | Balance pH in pool and adjust output of unit to ensure satisfactory production of chlorine. |
| | Check cable connections to Cell | Ensure no water contact is occurring with pins. |
| **Every Three Months** | Check Cell connections for leaks | Isolate Pump, turn power off, clean and grease O rings or replace if necessary |
| | Check for insects/ants | Spray a surface insecticide on the surfaces around the unit to prevent ant and insect ingress |
| **Every Six Months** | Check chlorine levels and pump operating hours | Adjust timer and output depending on demand for current season. |
| | Prevent insect ingress to controller | Turn controller off, use an insect spray and spray onto walls around controller. Do not spay directly into unit. |

# Section 6. Troubleshooting

| Symptom | Possible Cause | Suggested Action |
|---|---|---|
| Low salt warning | Salt below range, cold water effect or salinity estimate affected by temperature. | Test salt level independently. Add salt only if confirmed low. Check temperature sensor if fitted. |
| No flow / no chlorine production | Pump off, blocked filter, closed valve, air in system or flow switch condition. | Check pump operation, filter condition, valves and water level. |
| Heater not operating | Heater disabled, setpoint reached, wiring/ communication issue or Heat Demand outside active window. | Check heater config, target temperature, RJ12/dry-contact connection and heater manual. |
| Halo Doser not dosing | Dosing paused, acid drum empty, tubing not primed or dosing level set too low. | Check Maintenance > Acid Dosing Off, prime tubing and confirm acid dosing level. |
| Halo Lite not responding | Not paired, out of Bluetooth range or lighting zone not assigned. | Recheck pairing, distance and lighting configuration. |
| FluidraPool cannot connect | Bluetooth permissions, Wi-Fi credentials, router setting or remote server unavailable. | Enable Bluetooth and required permissions, check Wi-Fi, test internet connection and retry pairing. |
| Timer did not run | Timer inactive, season date range not active or equipment removed from timer. | Check timer status, season assignment, date/time and equipment configuration. |
| Firmware update not completing | Internet connection interrupted or power was interrupted. | Restore Wi-Fi, keep power on and contact support if the update remains incomplete. |

# Section 7. Appendices

## 7.1 Appendix A: Draft Heater Connection Guide

| Heater / Heat Pump Type | Echo Connection | Draft Notes |
|---|---|---|
| **AstralPool Genus-style gas heater** | RJ12 | Use approved RJ12 connection. External temperature sensor not required when heater communication supplies required data. |
| **AstralPool heat pump requiring interface** | RJ12 via approved interface | Use part number 13709 HP interface adaptor for connection. |
| **Third-party heater with low-voltage remote input** | Dry-contact heater relay | Connect to remote switch input as permitted by the heater manufacturer. **Do not exceed dry-contact rating.** |

| | |
|---|---|
| WARRANTY REGISTRATION | Record your equipment details here for quick reference:<br>Model No. : _____<br>Serial No. : _____ |
| | AUSTRALIA WARRANTY:<br>For full warranty terms and conditions and to register your warranty, visit *www.astralpool.com.au/warranty* and complete your details.<br>◀ Or scan the QR code to go directly to the registration page. |
| | NEW ZEALAND WARRANTY:<br>For full warranty terms and conditions and to register your warranty, visit *www.astralpool.co.nz/warranty* and complete your details.<br>◀ Or scan the QR code to go directly to the registration page. |

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