

MANUAL



WELCOME

Congratulations on the purchase of your new Earth Spa and thank you for choosing a more environmentally friendly way forward.

Enclosed you will find everything you need to begin your new journey with us:

Earth Spa User Manual

Maintenance and Care Guide

Warranty Information

We encourage you to visit www.earthspas.com and follow us [@earthspas](#) for all the latest information and exciting news.

Purchase Date: _____

Installation Date: _____

Earth Spas Dealer: _____

Address: _____

Telephone: _____

Earth Spa Serial Number: _____

Warranty Registration
Date: _____

CONTENT

SAFETY GUIDELINES	4
SPA OVERVIEW	5
KEY FEATURES	6
EARTH SPA CONTROLS	7
in.k336 CONTROLS	7
in.k506 CONTROLS	13
in.k806 CONTROLS	18
SPA AND WATER MAINTENANCE	24
GENERAL MAINTENANCE AND SERVICING	25
UNDERSTANDING WATER CHEMISTRY	26
TROUBLESHOOTING	27
WARRANTY	28

SAFETY GUIDELINES

SAFETY GUIDELINES

In the interests of your own safety, please ensure the following guidelines are adhered to at all times.

Failure to follow instructions and warnings contained in the Owner's Manual could result in personal injury, property damage and could also invalidate the warranty.

SAFETY WARNINGS: Risk when children are using the spa.

Supervision: Children should not use spas or hot tubs without adult supervision.

Water Temperature: Children are much more susceptible to hot water. Lower temperatures are recommended when children are using the spa.

Slippery Surface: Remind children to enter and exit the spa carefully to avoid slipping and other injuries. Do not allow children to climb on to the spa cover. Always ensure you lock the child resistant locks after using the spa.

ELECTRICAL SAFETY

Do not permit the use of any electronic appliances within 1.5m of the spa. Ensure that the spa cabinet remains shut to avoid water entering and coming in to contact with electrical components. If water enters the spa cabinet, turn off the spa at the power outlet and ensure all components are dry before attempting to power the spa on.

IMPORTANT INFORMATION

Operating Temperature: To reduce the risk of injury, spa water should never exceed 40°C. This is the maximum programmed setting and should not be altered.

Medical Conditions: People with diabetes, high blood pressure, heart disease or other cardiovascular conditions or those who are pregnant should consult a GP before using a spa.

Hygiene: To reduce the risk of contaminating the spa water and to minimise health risks, showering is recommended prior to using the spa. People with skin conditions should consult their GP prior to using the spa.

Alcohol and Medication: The consumption of alcohol in and around the spa is potentially hazardous. Never use glass drinking vessels in or near the spa. Alcohol can cause drowsiness and lead to drowning. Any person taking medication should consult their GP before using a spa.

Soak and Cool Time: We recommend using your spa in 20-30 minute sessions to avoid prolonged exposure to heat above normal body temperature.

Drainage Requirements: Ensure the spa is not in a low or floodable position, as this could cause electrical equipment shortage, be potentially dangerous to spa users and could void your warranty.

SPA OVERVIEW



- | | | | |
|----|---------------------|-----|--------------------------|
| 1. | Water Diverter | 8. | Filter Cartridge Housing |
| 2. | Air Controls | 9. | Laminar Water Feature |
| 3. | Jets | 10. | Water Feature Controls |
| 4. | Backlit Cup Holders | 11. | Underwater Light |
| 5. | Headrest | 12. | Foot Massage Jets |
| 6. | Gecko Control Panel | 13. | Suction Grill |
| 7. | Bluetooth Speakers | | |

Model shown is Mariana and is representative of the features of the range.

KEY FEATURES



The Gecko Control panel on your spa allows you to operate all features of the spa with total ease. You can use the control panel to operate the pumps, lights, water feature as well as adjust the temperature and maintenance cycles.



The Diverters allow you to direct the water flow to different sections of the spa, giving you total control and flexibility over the jet water flow.



Airflow controls give you the control over how much air is given to the jets, allowing you to increase or decrease to your desired level.



Bluetooth Music System allows you to connect any Bluetooth device to play your favourite music through the spas high quality speakers and subwoofer.



The backlit Laminar Water Feature can be operated independently of the jets, creating a calming ambience in your spa.



LED Lighting around the spa and in the footwell allow you to customise your spa experience.



Direct Nozzle jets provide a continuous, steady stream of water.



Single / Double Roto Pulsator jets give a shiatsu effect massage.



Advanced foot massage jets give a deep, targeted message with a continuous water flow.

EARTH SPA CONTROLS

In.k336



In.k506



In.k806



Gecko and their respective logos are Registered Trademarks of Gecko Alliance Group.

in.k336 Keypad Layout



Spa Functions



Off Mode

Pressing Pump Key for 5 seconds will enable the off mode. This mode allows you to stop all outputs including automatic functions such as filter cycle, heat request and smart winter mode for 30 minutes to perform quick spa maintenance. When Off mode is active the display will toggle between the "OFF" message, the clock and the water temperature. Press Pump Key to restart the system before the expiration of the 30 minute delay. When the system resumes normal operation, the display shows "On" for 3 seconds.



Keypad Lock (Available only if the lock feature is enabled in the spa controller configuration). You can lock the keypad by selecting one of 2 security levels: Partial or Full. The Partial level locks the set point adjustment and many options in the settings menu. The Full level locks all keypad functions.

Partial lock activation: Press both arrow keys simultaneously for 5 seconds. The keypad will display "LocP". Release both keys to engage Partial lock.



Pump Key

1 Pump Models

Press Pump Key to turn on Pump 1. A second press will turn off Pump 1. A built-in timer automatically turns pump off after 20 minutes unless the pump has been manually deactivated first.

2 Pump Models

Press Pump Key to turn on Pump 1. A second press will turn on Pump 2. A third press will turn off Pump 1, Pump 2 will remain on. A fourth press will turn off Pump 2.



Light key

Press Light Key to turn the waterline and footwell lights on. A second press turns the lights off. A built-in timer automatically turns the lights off after 2 hours, unless they have been manually deactivated first.



Up/Down keys

Use Up or Down key to set desired water temperature. The temperature setting will be displayed for 2 seconds to confirm your new selection.



Waterfall Key

Pressing Waterfall Key will activate the water feature on the spa. The waterfall operates independently of the main pumps. A second press will turn off the water feature.

Spa Functions



Setting filter or purge cycle start time

The display will show FSxx, "xx" representing the starting hour of the cycle. Use the arrow keys to adjust the hours. Use the Program key to jump to the next parameter, filter duration (Fd).



Setting filter cycle duration (not available on purge systems)

The display will show Fdxx, "xx" representing the duration in hours of the filter cycle. Use the arrow keys to adjust the duration. Use the Program key to jump to the next parameter, filter or purge frequency (FF).



Setting filter or purge cycle frequency

The display will show FFxx, "xx" representing the number of cycles per day. Use the arrow keys to adjust the frequency. Use the Program key to jump to the next parameter, economy mode (EP).

0 = no filtration
24 = continuous filtration

It is not recommended to set this to "0".

The "Filter cycle" indicator lights up when filter is on and flashes when suspended.



Setting economy mode

This mode allows you to lower the temperature set point of the spa by 11 °C during a certain period of the day.

The display will show EPx, "x" representing the state of the programmed economy (0 = disabled, 1 = enabled). Use the arrow keys to enable or disable economy mode. Use the Program key to jump to the next parameter, economy start time (ES).



Setting economy start time

The display will show ESxx, "xx" representing the hour at which the economy mode will become active. Use the arrow keys to adjust the hour. Use the Program key to jump to the next parameter, economy duration (Ed).

When the Economy mode is ON, the display will toggle between the "Eco" message, the time, and the water temperature.



Setting economy duration

The display will show Edxx, "xx" representing the duration in hour of the economy mode. Use the arrow keys to adjust the hour. Use the Program key to jump to the next parameter, heat pump regulation mode.

24 = continuous economy

Note that the parameters for the economy mode settings are associated to specific low level configuration of the system that are not present in all software revisions.

Spa Functions



Setting temperature unit

Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). The display will show F or C.

Use the arrow keys to change the setting. Use the Program key to save all the parameters.



Smart Winter Mode

Our Smart Winter Mode protects your system from the cold by turning pumps on several times a day to prevent water from freezing in pipes.

The "SWM" indicator lights up when freezing is detected and flashes when the purge is active.



Water temperature regulation

Every 15 to 90 minutes the pump will run to ensure accurate water temperature readings as well as avoid heater activation in dry conditions. After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at Set Point.

 Indicator flashes when taking water temperature reading.

Cooldown

After heating the spa water to the desired Set Point, the heater is turned off, but its associated pump (Pump 1 low-speed or CP) remains on for a predetermined period of time to ensure adequate cooling of the heating element, prolonging its useful life.

Spa Functions



Heat pump regulation mode *(Available only if a Gecko Brand Heat Pump (in.temp) is connected to your spa setup)*

The Regulation Modes will help you set up your ideal Heat Pump regulation settings. Use the arrow keys to choose one of the following modes depending on your need:

- EcoH (Eco Heat)
- HEAT (Smart Heat)
- AUTO (Eco Auto)
- SMRT (Smart Auto)
- COOL (Cool)
- ELEC (Electric)

Use the Program key to jump to the next parameter, temperature unit.

 The "Heater" indicator lights up when the system is heating the water temperature using the heat pump

or the electric heater. It will flash if heating is suspended.



The "SWM" indicator lights up when the heat pump is cooling the water temperature.

Heat pump modes

EcoH (Eco Heat)

In this mode, the heat pump is used as the unique source of heating. The heating element is kept off and the heat pump is not used to cool the water should its temperature rise above the current set point.

HEAT (Smart Heat)

This mode uses the heat pump as the main heating source. The heating element is turned on only if there is a large temperature difference between the water and the set point. The heat pump is not used to cool the water in this mode.

AUTO (Eco Auto)

This mode borrows functionality from both Eco Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is never activated in this mode.

SMRT (Smart Auto)

This mode borrows functionality from both Smart Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is activated only if there is a large temperature difference between the water and the set point.

COOL (Cool)

This mode uses the heat pump in cooling mode only. The heat pump is not used as a heating source and the heating element is never activated.

ELEC (Electric)

This mode keeps the heat pump off and uses only the heating element to regulate water temperature.

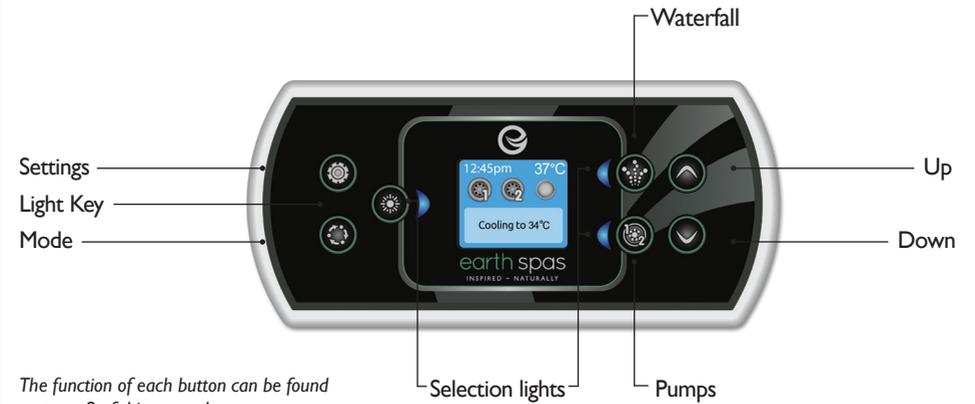
Trouble Shooting

Should an error occur, the display will show one of the following error messages toggled with the clock and the water temperature.

Code	Description
------	-------------

	The system has shut the heater down because the temperature at the heater has reached 119°F (48°C). Do not enter the water! Remove the spa cover and allow the water to cool down, then shut power off and power your spa up again to reset the system.
	The system does not detect any water flow while the primary pump is running. Check and open water valves. Check for water level. Clean filter. If the problem persists, call your dealer or service supplier.
	The water temperature in the spa has reached 108°F (42°C). Do not enter the water! Remove the spa cover and allow the water to cool down to a lower temperature. Call your dealer or service supplier if problem persists.
	A problem is detected with the temperature probe. Call your dealer or service supplier.
	Temperature inside the spa skirt is too high, causing the internal temperature in the spa control to increase above normal limits. Open skirt and wait until error clears.
	The spa control does not have valid software. Please insert valid in.stick to reprogram spa control.
	Keypad not communicating with spa control
	Slave spa control not detected
	Heat pump error HPxx (01 to 99) See in.temp techbook

in.k506 Keypad Layout



The function of each button can be found on page 8 of this manual.

Main functions



Settings key

One press gives you access to a menu to manage the settings of your spa. Refer to the settings section for details about the settings menu.

Main screen

The main screen gives you access to your accessories and water temperature. At the bottom of the screen you will see any error or maintenance messages that are present.

Power

Press any button to turn the keypad on. After 30 minutes without activity it will shut off.

Start or Stop Accessories

To start or stop an accessory, press the associated button. Icons will become animated when their accessory is

turned on, and inanimate when turned off. Icons on the screen will reflect the speed or state of the devices running on your spa. When an accessory has more than two states, press the button until it reaches the desired state.

Note (version 14.00 and higher): A special buttons and icons mapping may be used when the spa configuration has 4 accessories* (3 pumps and a blower or 4 pumps and no blower). In this case only, buttons and icons are divided in 2 sets of accessories. Button #1 starts or stops pump #1 and pump #2. Button #2 starts or stops Pump #3 and Pump #4/ blower. Corresponding icons will be animated when one or more accessories are on.

* Only Pump #1 can have a dual speed.

Mode key

Successive presses on the Mode key will give access to control different optional accessories of your spa such as Audio and others. Note that if an accessory is not present in your spa configuration, its menu will not appear. Refer to the following section to get details about the possible accessories and their detailed functionalities. The screen will revert back to the spa mode if no key is pressed for 60 seconds.

If you don't have any accessories, Mode key can be used to change your display orientation.

Spa Functions



Water temperature

The temperature shown at the top of the screen gives the actual water temperature. Use the Up and Down buttons to set the desired temperature. The set point will appear in blue at the bottom. After 3 seconds without any change to the set temperature value, the keypad will resume the normal display of messages.

Settings



Settings

From the home page you can access the Settings, where you will find:

- Water Care
- Heat Pump (if installed)
- Audio (if installed)
- in.clear-200 linked version (version 13.00 and higher)
- Standby (version 6.00 only)
- Maintenance (version 7.00 and higher)
- Date & time
- Keypad
- Wi-Fi (Version 7.00 and higher. Only available on in.touch with software 11.00 and higher.)

- Config *
- Restore *
- About

Use the arrow keys to move up and down in the list. To select an option, press the lit button beside it (Light button). At any point you can press the Settings button to return to the home screen.

*Reserved for qualified electricians installers



Water care

The Water Care section will help you set up your ideal filtration and heating settings. Choose a mode depending on your need.

Use the Light key to choose your setting. A checkmark will appear on the selected icon to confirm.

In Economy mode, the set point will be reduced by 11°C*, which means that the heating system will not be engaged unless the temperature falls to 11°C below the spa's set temperature.

*Default pack value

Main functions

Water care modes



Away:

In this mode the spa will always be in economy; the set point will be reduced by 11°C*.



Standard:

The spa will never be in economy mode and will be filtering according to the pack's low level configuration.



Energy Savings:

The spa will be in economy mode during the peak hours of the day and resume normal mode on the weekend*.



Super Energy:

The spa will always in economy mode during peak hours, every day of the week*.



Weekender:

The spa will be in economy mode from Monday to Friday, and will run normally on the weekend*.

*Filtration will be reduced when the economy mode is active.



Modifying schedules

Use the arrow keys to scroll through the Water Care selections. To see and/or modify a Water Care category, use the lit button to the right (key I) to open the selected Water Care menu.

Use the arrow keys to choose a schedule to modify (choice of economy and filtration schedules). Use the Light key to move between parameters.

You have several possibilities for the schedule (Mon-Fri, weekend, every day, or single days). The schedules will be repeated every week. The time and duration are set in 30 minute increments. Once you have set the

schedule, use Key I to go back. Ensure that you have selected the desired Water Care option in the main Water Care menu.

If your spa uses a circulation pump configured to run 24 hours, the screen will show you the purge setting instead of filtration. The purges are pre-programmed for a fixed number of minutes, therefore the duration will be set to N/A on the screen, and only the start time can be modified.



Standby (version 6.00 and higher)

The Standby mode allows you to service your spa.

Pumps will stop for 30 minutes, and automatically restart after this time.

Once Standby mode has been activated a screen will appear to show that pumps are stopped. The normal spa page will return at the end of maintenance.

Press on the Light key to leave Standby mode and restart the spa.

Note: In version 6.00 only, Standby mode is accessible directly from the Settings page.

Settings



Heat pump

This menu allows you to change the regulation mode of your heat pump. Simply navigate with the keypad and press the Light Key to select a mode

Heat pump modes:

Eco Heat: The heat pump is used as the unique source of heating and does not cool the water if the temperature rises above the set point. The heating element is kept off.

Smart Heat: The heat pump is used as the main heat source and does not cool the water. The heating element is turned on if there is a large difference between the water and set point temperatures.

Eco Auto: Utilising Eco Heat and Cool modes to automatically select the mode according to water temperature. The heating element is kept off.

Smart Auto: Utilising Smart Heat and Cool modes to automatically select the mode according to water temperature. The heating element is turned on if there is a large difference between the water and set point temperatures.

Cool: The heat pump is used in cooling mode only and not as a heating source. The heating element is kept off.

Electric: This mode keeps the heat pump off and only uses the heating element to regulate water temperature.



Maintenance (version 7.00 and higher)

From the Settings page you can access the Maintenance menu, which gives you access to the following options:

- Maintenance reminders
- Standby

Use the Up and Down keys to make a selection, and Light key to confirm.



Maintenance reminders (version 7.00 and higher)

The in.k506 keypad will remind you of maintenance required on your spa, like rinsing or cleaning the filter. Each task has its own duration, based on normal use. The Maintenance reminders menu allows you to verify the time left before maintenance is required, as well as to reset the time once a task is completed. Use the Up and Down keys to move through the list. To reset a task select it by pressing Light key, then confirm when prompted. Once you have confirmed the task will be reset.



Date and time

Here you can adjust the time format, change the year, date and time. Use the arrows to choose the setting that you want to adjust, and select it by pressing the Light key. Use the arrow buttons to change the parameters, and the Light key to move between parameters.

Key 1 will take you back to the main Settings menu.

Note: In version 6.00 and earlier, only the day of the week can be changed, and not the year or date.

Settings



Keypad settings

In this section, you can change the temperature unit, language, display orientation, rim light color and keypad security. Note the spa pack must be configured accordingly to be able to change the rim light color.

When you change the display orientation, the contextual options and arrow keys adjust to the chosen orientation. The Mode and Menu keys remain



To connect your in.touch module to a wireless network, use the Up/Down keys to go to the WiFi option in the Settings menu and Light key to select it.

After a few seconds the available networks will appear on the screen, as well as their signal strength.

Use the Up/Down keys to move through the list. Select your network by pressing on Light key.

If the WiFi network is password protected enter it when prompted.

unchanged, as well as the accessory keys in the main spa menu.

With the in.k506 equipped with a selectable rim light color modul: If the "RGB backlight" option is enabled in the spa configuration an option will appear to allow selection of the keypad rim light color.

You can lock the keypad by selecting one of 3 security levels: Unlock, Partial or Full. The Partial level locks the set point adjustment and many options in the settings menu. The Full level locks all keypad functions. To unlock the keypad (either Partial or Full), press and hold the Light key for 5 seconds.



- Use the arrow keys to choose your letters and change the type of character (uppercase, lowercase, number, symbol).
- Use Key 2 to move the cursor forward
- Use Key 1 to backspace
- Use Light key to confirm

If no password is required the in.touch will connect automatically.

Once the in.touch module is connected to a WiFi network a check mark in a green circle will appear in the WiFi menu, and the network logo will change to green in Settings menu.



WiFi (version 7.00 and higher)

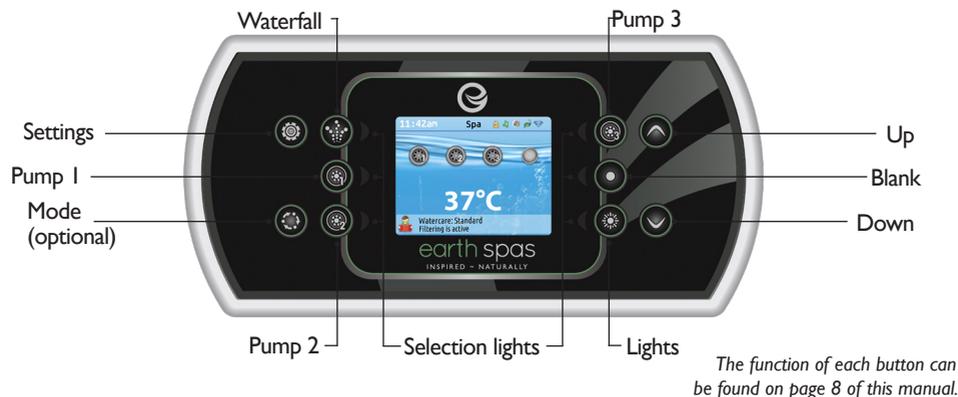
For the WiFi menu to appear in the Settings menu your in.touch module must be equipped with software version 11.00 or higher. This menu allows you to connect your in.touch module to a WiFi network or to change its network.

For more details about other in.touch connection methods please see the in.touch techbook.

Note: WiFi logo color in Settings menu corresponds to the in.touch connection state.

- Yellow = not connected
- Green = connected to a network
- Yellow with wait icon = connection attempt to a network
- Red with wait icon = in.touch no longer detected (in.touch must be reset before next connection attempt).

In.k806 Keypad Layout



Spa Functions



Settings key

One press gives you access to a menu to manage the settings of your spa. Refer to the settings section for details about the settings menu.

Mode key

Successive presses on the Mode key will give access to control different optional accessories of your spa such as Audio and others. Note that if an accessory is not present in your spa configuration, its menu will not appear. Refer to the following section to get details about the possible accessories and their detailed functionalities. The screen will revert back to the spa mode if no key is pressed for 60 seconds. Depending on pack configuration, Mode key may

also be used to change the display orientation when an accessory is not present.

Power

Press any button to turn the keypad on. After 30 minutes without activity it will shut off.

Main screen

The main screen gives you access to your accessories and water temperature. At the bottom of the screen you will see any error or maintenance messages that are present.

Notifications

A notification area at the top right-hand side of the screen shows the state of certain accessories installed in the spa.



Start or stop accessories

To start or stop an accessory, press the associated button. Icons will become animated when their accessory is turned on, and inanimate when turned off. Icons on the screen will reflect the speed or state of the devices running on your spa. When an accessory has more than two states, press the button until it reaches the desired state.

Water temperature

The temperature at the bottom of the screen shows the current water temperature. Use the Up and Down buttons to set the desired temperature. The set point will appear in blue. After 3 seconds without any change to the set temperature value, the current water temperature will reappear.

Spa Functions

- in.mix:
 - Indicates that an in.mix system is detected.
- in.clear:
 - The icon is green when the in.clear is generating bromine.
 - The icon is grey when the in.clear isn't generating bromine.
 - A red cross indicates that the in.clear is turned off.
- in.touch:
 - Indicates that the in.touch module is detected and connected to a Wi-Fi network.
 - A red cross indicates that the in.touch module is detected but isn't connected to a Wi-Fi network.
- in.stream 2:
 - The icon is green when the in.stream 2 is ON.
 - The icon is grey when the in.stream 2 is OFF.
- Keypad security:
 - Indicates that the keypad is locked. For more information about keypad security, refer to the keypad settings section.

For more information about the in.mix, in.clear, in.touch or in.stream 2, refer to the Techbook.

Settings



Settings

From the home page you can access the Settings, where you will find:

- Water care
- Heat Pump (if installed)
- Audio
- in.clear-200 (linked version)
- Maintenance
- Date and time
- Keypad Settings
- Wi-Fi (only available on in.touch with software 11.00 or higher)
- Miscellaneous
- Electrical configuration
- About

Use the arrow keys to move up and down in the list.

To select an option, press the lit button next to it (key 2).

At any point you can press the Settings button to return to the home screen or key 1 to go back.



Water care

The Water Care section will help you set up your ideal filtration and heating settings. Choose from Away from Home, Standard, Energy Savings, Super Energy Savings, and Weekender, depending on your need. Use key 2 to choose your setting.

A green checkmark will appear on the selected icon to confirm.

In Energy Savings mode, the set point will be reduced by 11°C*, which means that the heating system will not be engaged unless the temperature falls to 11°C below the spa's set temperature.

The filtration schedule shown on the screen will apply to the main filtration pump, most likely pump 1. If your spa uses a circulation pump configured to run 24 hours, the screen will show you the purge setting instead of filtration. The purges are pre-programmed for a fixed number of minutes, therefore the duration will be set to N/A on the screen, and only the start time can be modified.

* Default pack value

Settings

Water care modes



Away from home:

In this mode the spa will always be in economy; the set point will be reduced by 11°C.



Energy Savings:

The spa will be in economy mode during the peak hours of the day and resume normal mode during the evening hours and on the weekend.



Weekender:

The spa will be in economy mode from Monday to Friday, and will run normally on the weekend.



Standard:

The spa will never be in economy mode and will be filtering according to the pack's low level configuration.



Super Energy:

The spa will always in economy mode during peak hours, every day of the week.



Default Settings:

When you select Default Settings you will be asked to confirm your choice. Doing so will restore all Water care schedules to default settings.



Modifying schedules

To modify a Water Care mode, use the lit key to the right (key 5) to open the selected Water Care menu. You can add schedules by scrolling down to Add, and selecting with key 2. To delete a schedule, press key 4.

You can modify the programmed schedules by selecting one and adjusting the schedule using the arrow keys. Use key 2 to move between parameters. You have several possibilities for the schedule (Mon-Fri, weekend, every day, or single days). The schedules will be repeated every week. The time and duration are set in 30 minute increments. Once you have set the schedule,

use key 1 to go back. Ensure that you have selected the desired Water Care mode in the main Water Care menu.

Heat pump

This menu allows you to change the regulation mode of your heat pump. You can choose from Eco Heat, Smart Heat, Eco Auto, Smart Auto, Cool and Electric.

A green checkmark indicates the currently selected regulation mode. To change the setting, simply navigate the menu using the arrow key and press key 2 to choose the desired regulation mode.

Settings

Heat pump modes



Eco Heat

In this mode, the heat pump is used as the unique source of heating. The heating element is kept off and the heat pump is not used to cool the water should its temperature rise above the current set point.



Smart Heat

This mode uses the heat pump as the main heating source. The heating element is turned on only if there is a large temperature difference between the water and the set point. The heat pump is not used to cool the water in this mode.



Eco Auto

This mode borrows functionality from both Eco Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is never activated in this mode.



Smart Auto

This mode borrows functionality from both Smart Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is activated only if there is a large temperature difference between the water and the set point.



Cool

This mode uses the heat pump in cooling mode only. The heat pump is not used as a heating source and the heating element is never activated.



Electric

This mode keeps the heat pump off and uses only the heating element to regulate water temperature.



Maintenance

From the Settings page you can access the Maintenance menu, which gives you access to the following options:

- Maintenance reminders
- Standby

Use the Up and Down keys to make a selection, and key 2 to confirm.

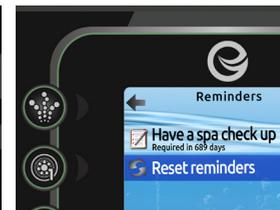


Maintenance reminders

The in.k806 keypad will remind you of maintenance required on your spa, like rinsing or cleaning the filter. Each task has its own duration, based on normal use.

The Maintenance reminders menu allows you to verify the time left before maintenance is required, as well as to reset the time once a task is completed.

Use the Up and Down keys to move through the list.



To reset a task select it by pressing key 2, then confirm when prompted. Once you have confirmed the task will be reset.

When you select Reset reminders you will be asked to confirm your choice. Doing so will reset all maintenance reminders to default values.

Settings



Standby

The Standby mode allows you to service your spa. Pumps will stop for 30 minutes, and automatically restart after this time.

Once Standby mode has been activated a screen will appear to show that pumps are stopped. The spa page will return at the end of maintenance.

Press on the Confirm key to leave Standby mode and restart the spa.



Keypad settings

In this section, you can change the temperature unit, language, display orientation, rim light colour* and keypad security. Note the spa pack must be configured accordingly to be able to change the rim light color.

Use the arrow keys to choose the setting that you want to adjust. Select it by pressing key 2 then use the arrow keys again to change the setting.

When you change the display orientation, the contextual options and arrow keys adjust



Date and time

Here you can adjust the time format, change the year, date, and time. Use the arrows to choose the setting that you want to adjust, and select it by pressing key 2.

Use the arrow keys to change the parameters, and key 2 to move between parameters. Key 1 will take you back to the main Settings menu.



Miscellaneous

In this section, you can change the Warm weather* and Info messages options.

You can bypass the pack filtration over-temperature feature. When Warm weather is "Off", the filtration over-temperature is disabled. This feature allows the spa to continue filtering even through the water temperature is high.

You can configure the main window message center. When set to Display, all information messages are displayed without exception and when set to Hide, some detailed messages are not displayed when they occur to keep the message center simple.

* Depending of pack configuration



About

This section shows information about the in.k806 software number, and the revision numbers of the different components of your system.

* Since v23.00, if an in.mix is installed, you can synchronize the color of rim light with an in.mix zone.

Settings



Wi-Fi (in.touch only)

For the Wi-Fi menu to appear in the Settings menu your in.touch module must be equipped with software version 11.00 or higher. This menu allows you to connect your in.touch module to a Wi-Fi network or to change its network.

For more details about other in.touch connection methods please see the in.touch techbook.

To connect your in.touch module to a wireless network, use the Up/Down keys to go to the Wi-Fi option in the Settings menu and key 2 to select it.



After a few seconds the available networks will appear on the screen, as well as their signal strength.

Use the Up/Down keys to move through the list. Select your network by pressing on key 2.

If the Wi-Fi network is password protected enter it when prompted.

- Use the arrow keys to choose your letters
- Use key 6 to move the cursor forward
- Use key 4 to change the type of character (uppercase, lowercase, number, symbol)



- Use key 3 to backspace
- Use key 2 to confirm

If no password is required the in.touch will connect automatically.

Once the in.touch module is connected to a Wi-Fi network a green check mark will appear in the Wi-Fi menu, and the network name will appear in the Settings menu.

SPA AND WATER MAINTENANCE

SPA WATER MAINTENANCE

We advise setting your filtration to run twice daily to ensure optimum water condition. Regular testing of the water throughout the week is advised to ensure the chemistry levels are balanced and adjustment can be made where needed.

The water in the spa will evaporate with time and use. This will increase the water mineral content and the water will gradually become harder. It is important to monitor the chemistry and top up with fresh, clean water on a regular basis.

We recommend draining and refilling the spa every 3 months, or sooner dependant on use, to ensure optimum water hygiene. After draining, clean the surface with an approved cleaning solution and rinse thoroughly prior to refilling with fresh, clean water. After refilling you will need to balance the water chemistry to optimum levels before using the spa for the first time.

NOTE: Never use household cleaning products as these are not suitable for the materials used in your spa.

DRAINING THE SPA

NOTE: Always power off the spa before draining and do not rewater until the water level is refilled to the water line. Never leave the empty spa exposed to direct sunlight, always replace the spa cover to protect the acrylic surface.



To drain the spa, locate the drain valve. Unscrew the cap cover anti-clockwise and attach the drain valve adapter. To start the water flow, pull the drain valve out from the spa. To stop the water flow, follow the above steps in reverse and secure the drain valve cap. We recommend attaching a hose to the adapter to run the water to a suitable drain.

FILTER MAINTENANCE

We recommend cleaning the filter cartridges weekly using clean water to remove any debris. The cartridges should be soaked in Spa Cartridge cleaner to remove any build up and promote effective filtration. We recommend rotating the filter cartridges to allow for effective cleaning and drying between use. Ensure the spa is turned off prior to removing the filter cartridges.

SPA SHELL SURFACE

Regular cleaning of the spa surface is encouraged to maintain hygiene and spa appearance. Using a soft, damp cloth, wet the surface and apply Spa Surface Cleaner in accordance with the instructions. Rinse with spa water and allow to dry.

NOTE: Never use products containing acetone or paint remover as this may cause damage. Never scratch the acrylic with an abrasive tool.

NOTE: Only ever use approved cleaning products on your spa, do not use household cleaning products especially, but not limited to, window cleaner as this will cause severe deterioration to the acrylic surface of your spa. Failure to use correct products will invalidate your spa warranty.

JET MAINTENANCE

Over time deposits can build up inside the jet bearings, which can affect the performance. It is necessary to clean the internal jet body to remove this build up.

Applying a light pressure with the palm of the hand, turn the jet face anti-clockwise until you reach the locking point. Once the jet stops rotating, apply a little extra force to unlock the jet past the locking point. Pull the jet face and body away from the spa.

The jet can be flushed with clean water to remove any debris. For stubborn build up the jet body can be cleaned with Spa Surface cleaner.

The jet is easily reinstalled in to the housing by following the above steps in reverse. Ensure the jet is secured before using.

GENERAL MAINTENANCE AND SERVICING

HEADREST CARE

Remove and clean the headrest with suitable cleaning solution and a soft cloth.

NOTE: To prolong headrest life we recommend removing them when adding chemicals to the spa and replace after running the spa for 30 minutes.

COVER MAINTENANCE

Rinse the cover regularly with clean, fresh water to remove any debris. A soft cloth can be used with suitable cleaning solution to clean any dirt.

NOTE: Do not use any solvent, abrasive or bleach containing products on the cover. Do not use any products on the inside of the cover.

DEBRIS IN WATER

Debris will occasionally accumulate on the bottom of the spa. The filtration cycle will remove small particles however large or heavy debris will need to be removed manually with a small pool net or spa vacuum.

HOLIDAY PREPARATION

It is essential to prepare your spa before going away to ensure your spa water stays balanced ready for your return.

Short Breaks – up to 7 days

Before going away, test and balance your water hardness and alkalinity. Thoroughly clean the filters and add the required amount of sanitiser to a floating dispenser. Shock the water with sanitiser before securing the spa cover. Your spa system can be set to Eco/Away mode depending on the model via the control panel.

Long Breaks – over 7 days

Following the same preparation as the short break, add a water clarifier before securing the spa cover. If possible, ask a friend or neighbour to add chemicals as required. Your spa system can be set to Eco/Away mode or if you are having an extended break your spa can also be set to Sleep mode through the control panel.

NOTE: If it is not possible to dose your spa whilst away we recommend draining the spa prior to departure. Always check the sanitiser levels on return before reusing your spa.

SERVICING

Regular servicing of your spa is essential to optimise performance of the spas components and to ensure hygiene.

It is recommended to arrange an annual service through your local Earth Spas dealer.

Note: Use of a non-approved third party contractor could invalidate your warranty.

WARRANTY

Your Earth Spa comes with comprehensive warranty cover. Full details of the warranty are available for reference at the end of this manual.

It is essential that you register your spa warranty with your Earth Spas dealer.

In the event that a warranty claim needs to be logged, please contact your Earth Spas dealer.

UNDERSTANDING WATER CHEMISTRY

3 STEPS TO ACHIEVE PERFECTLY BALANCED WATER

Total Alkalinity (TA) – The most important element to keep under control as it acts as an anchor to prevent pH fluctuation. With the spa switched off, pre-dissolve TA granules in 5-10L of spa water. Add the solution to the centre of the spa and leave for 30 minutes before circulating and re-testing.

Potential Hydrogen (pH) – A neutral pH balance of between 7.2 and 7.6 will ensure your chosen sanitiser will be effective. Low pH causes acidic water and will result in stains and discolouration. High pH will cause calcium and hardness.

Sanitisers – Once you have checked TA and pH, you can test the sanitation levels. Typically either Chlorine or Bromine are used as a sanitiser but never use these together. For perfect water chemistry ensure Chlorine levels are between 1-3 ppm and Bromine 2-6 ppm.

EARTH SPAS WATER CHEMISTRY

Using quality chemicals in your Earth Spa Hot Tub is vital in maintaining your spa. There are many different chemicals available, we advise using recommended products from your local Hot Tub Dealer.

Issue	Possible Cause	Solution
Green / Slippery Water	<ul style="list-style-type: none"> Bacteria or Algae Growth. 	<ul style="list-style-type: none"> Shock dose with Chlorine Shock granules. If using Bromine use Non-Chlorine Shock instead.
Foaming Water	<ul style="list-style-type: none"> High level of unwanted dissolved compounds e.g. Body Oils. 	<ul style="list-style-type: none"> Ensure water chemistry is correct. Shower before using spa and re-use swimwear to prevent unwanted compounds in water. Use Non-Chlorine Shock weekly to reducing foaming compounds and increase the filtration cycle frequency. Use Anti-Foam after trying previous steps. If foam is persistent, it may be necessary to drain and refill the spa.
Cloudy Water	<ul style="list-style-type: none"> Dirt particles and impurities affecting clarity. 	<ul style="list-style-type: none"> Clean filters thoroughly with Spa Cartridge Cleaner Shock treat the water with Shock Granules and run the circulation, repeat weekly as needed. Use Spa Clarifier and run the circulation.
Scaling	<ul style="list-style-type: none"> Mineral deposits due to hard water 	<ul style="list-style-type: none"> Check pH levels and adjust as necessary. Add No Scale solution weekly to reduce the risk of calcium build up.
Scum Marks above water line	<ul style="list-style-type: none"> Oil and grease build up on surfaces 	<ul style="list-style-type: none"> Use a suitable Spa Surface Cleaner to remove unwanted marks in accordance with label instructions.

TROUBLESHOOTING

Issue	Possible Cause	Solution
Spa starts automatically	<ul style="list-style-type: none"> Filtration program operating. Heating function operating. Antifreeze function operating. 	<ul style="list-style-type: none"> The control system will automatically stop when the programme finishes.
Spa jets turn off	<ul style="list-style-type: none"> The jets have reached the default running time. The pump motor overheat protection is active. 	<ul style="list-style-type: none"> Repress the pump button to restart the cycle. Leave the pump off for 1 hour to cool before and then start the cycle.
Spa will not start in any mode	<ul style="list-style-type: none"> Power is turned off. Control panel is locked. Control panel failure (error message displayed). 	<ul style="list-style-type: none"> Check the power supply is turned on. Check the control panel lock. Check the failure code in the control system manual and contact dealer.
Error message displayed and spa stops working	<ul style="list-style-type: none"> Error detected by digital diagnostics function. 	<ul style="list-style-type: none"> Check the error message in the control system manual, contact your dealer if you are unable to resolve the issue.
Heater is heating slowly or is failing to heat	<ul style="list-style-type: none"> Temperature setting is low. Filter cartridge is dirty / blocked. No spa cover on the spa causing heat loss. Jets connection to the circulation pump is closed. Heater is broken. 	<ul style="list-style-type: none"> Increase temperature setting. Clean / replace the paper filter cartridge. Put the cover on the spa whilst heating up. Turn on the jets to open the connection. Contact your dealer for heater maintenance.
Reduced water flow through jets	<ul style="list-style-type: none"> Jets are not fully opened. Jets are blocked. Air valve is turned off. Water diverted closed to the seat. 	<ul style="list-style-type: none"> Turn on the jets fully. Turn the jet anti-clockwise to take off the fitting and clean inside the jet chamber if blocked. Turn on the air valve switch. Position the water diverter to the desired seat. Check the water pump side-check valves are fully opened.
Pump running after filling spa but no water coming through jets	<ul style="list-style-type: none"> The jets are closed. Air blockage in the water pump. 	<ul style="list-style-type: none"> Open the jets. Turn pumps on and off several times to purge the blocked air. <p>Note: Fill the spa with water through the filter to reduce the chance of air blockages.</p>

SPA STRUCTURE & SHELL SURFACE WARRANTY

10-years structural warranty:

The manufacturer warrants the structure of the spa support frame against defects in workmanship or materials for a period of 10 years from date of delivery subject to the limitations and conditions expressed in this warranty.

5-years warranty on the acrylic shell structure:

The shell will maintain its structural integrity and configuration and will be free of any water loss due to a defect in the spa shell.

3-years warranty on the shell surface of the spa:

The manufacturer provides a 3-year warranty against blistering, cracking and delamination.

SPA PLUMBING & COMPONENT WARRANTY

2-years warranty on spa control box & display module:

The manufacturer warrants the display and the spa control box against defects in the materials and workmanship or any defect for two years. This is with the exception of fuses, bulbs and gaskets which are deemed as perishable and replaceable items.

2-years warranty on spa electrical heater:

The manufacturer warrants the heater against defects in materials and workmanship for a period of 2 years from date of delivery. This warranty is limited to the supply of replacement parts. This warranty does not cover damage to heaters caused by an incorrect water balance resulting in the heater being subjected to abrasive/acidic water.

2-years warranty on spa heat pump:

The manufacturer warrants the heater against defects in materials and workmanship for a period of 2 years from date of delivery. This warranty is limited to the supply of replacement parts. This warranty does not cover damage to heaters caused by an incorrect water balance resulting in the heater being subjected to abrasive/acidic water.

2-years warranty on spa pumps:

The manufacturer warrants the spa water pumps against defects in materials and workmanship for a period of 2 years from date of delivery. Sudden and consistent water loss must be reported to the seller as soon as possible. Damage to the pump motor caused by a pump leaking for an extended period without notifying the seller will not be covered under this warranty.

2-years internal plumbing warranty:

The manufacturer warrants the plumbing, piping, and plumbing joints against defects in materials and workmanship for a period of 2 years from the date of delivery.

1-year warranty on other electrical items:

The manufacturer warrants the factory installed Bluetooth music module, speakers, amplifier and sub-wwoofer, spa ozone module, the LED light assemblies, which consists of all lights within the spa, including the main light and lighting of any water feature, to be free from defects in materials and workmanship for 1 year.

SPA FURNISHINGS & PLASTICS WARRANTY

2-years warranty on spa jet internals:

The manufacturer warrants jet internals to be free of manufacturing defects for a period of 2 years from date of delivery. This warranty excludes bearings damaged by grit, sand and improper water chemistry causing corrosion of the part and is limited to the supply of replacement parts after the faulty part has been returned to the manufacturer for warranty inspection.

1-year warranty on plastic control parts:

The manufacturer warrants the plastic control parts such as diverters and air controllers against defects in materials and workmanship for a period of 1 year from the date of delivery. This warranty excludes damage by grit, sand and improper water chemistry causing corrosion of the part and is limited to the supply of replacement parts after the faulty part has been returned to the manufacturer for warranty inspection.

1-year warranty on THERMOCLAD cabinet & spa step:

The manufacturer warrants the THERMOCLAD spa cabinet and step against defects in materials and workmanship for a period of 1 year from the date of delivery. This warranty specifically covers the structural integrity of the cabinet, namely peeling, splitting, cracking, warping. The THERMOCLAD spa cabinet and step finish is warranted to be free from defects in materials and workmanship at the time of initial delivery. Fading and weathering of the surface will occur naturally over time and are not considered defects.

1-year spa hardcover warranty:

The manufacturer warrants the SPA hardcover against defects in materials and workmanship for a period of 1 year from the date of delivery. This warranty applies only to the structural integrity of the cover and the vinyl. Damage caused to stitching, straps or locks due to improper use of the cover will not be covered under warranty. Disposal of any cover replaced under warranty will be the owner's responsibility.

90-days warranty on all other fixtures and furnishings:

The manufacturer warrants all other parts not previously mentioned for 90 days from the date of delivery. This applies to items such as filter housing, topside display sticker, items that can be replaced without the use of a tool such as filter cartridges, filter lid, spa pillows, cover locks etc. are not included in the warranty but are warranted to be free from defects in materials and workmanship at the time of delivery.

- The warranty does not cover damage caused by misuse, lack of maintenance, limescale deposits or corrosive acidic staining and fading caused by water chemistry imbalance.
- The shell surface warranty does not cover damage caused by the use of household cleaning chemicals, prolonged exposure to direct sunlight, use of Trichlor (chlorine tablets) or excessive water chemistry imbalance.
- The manufacturer reserves the right to replace the defective parts with factory or remanufactured parts.
- The manufacturer is not responsible for any damage caused by alterations or modifications by the user.
- Radio/Bluetooth reception is not covered by the warranty because the reception depends on local conditions. The received signal may deteriorate if there are high voltage lines near the spa.
- The warranty of the spa does not cover defects, damage or failure caused by the common carrier, installer, user or other persons, pets, or rodents, or resulting from, without limitations, any of the following: careless handling (filling unit plumbing, abrading finish, etc.) including its own negligence; modification of any type for any reason (including modification to meet local codes); improper installation (including installation not in accordance with instructions and specifications provided with the unit); connections supplied by the installer of the equipment; improper voltage supply or unauthorized electrical modification/misuse; incorrect operation, or lack of proper routine maintenance; operation of the unit without the specified minimum amount of water or at inappropriate water temperature; use of abrasive or improper cleaners; or acts of nature, such as lightning, floods, earthquakes etc.
- In addition, The manufacturer will not be responsible for incidental or consequential damages or losses arising from any cause (e.g. water damage to carpet, ceiling, tiles, hard surfaces, loss of use etc.) Material or cosmetic damages resulting from the spa being an ex-display unit are not included in this warranty and should be noted with your dealer prior to delivery and installation.
- This warranty does not include labour to rectify a faulty spa, but may or may not be offered by your spa dealer; labour, transportation or other costs incurred in the removal and/or reinstallation of the original unit and/or installation of a replacement unit; any costs relating to obtaining access for repair; or loss of use damage, including loss of sales, profit or business advantage of any kind under any circumstances. Spa units are excluded from any warranty coverage in any addition, deletion or modification of any kind whatsoever has been made to the unit (or to any component).
- The warranty does not cover defects or damage due to normal wear and tear, improper installation, alterations without the manufacturer written consent, accident, misuse, abuse, commercial or industrial use, use of an accessory not approved by the manufacturer, failure to follow the user manual, or repairs made or attempted by anyone other than an authorized representative of the manufacturer.
- The manufacturer will not provide compensation for delays in rectifying a faulty/broken spa.

Extent of Warranty:

This warranty extends only to the original consumer purchaser of the spa when invoiced and delivered. The warranty terminates upon any transfer of the ownership, prior to the expiration of the warranty period. Any modifications to the spa will void the warranty.

Warranty Performance:

To make a claim under this warranty, contact your Earth Spas dealer or distributor.



earth spas

earthspas.com