



OWNER'S MANUAL



NORTH AMERICAN EDITION

Congratulations on your decision to enjoy a Pacific Spa!

Welcome to the Pacific Spas family!

Your Pacific Spa has been engineered and built to the highest standards. Enjoy it regularly and experience the wellness, serenity and satisfaction that you've always wanted.

The information and instructions set out in this Owner's Manual are provided to help you fully use your Pacific Spa and care for it as easily as possible.

We ask that you read this manual thoroughly. Your Pacific Spas dealer will be happy to assist if you have any questions.

Your comments and suggestions are always appreciated. We welcome all correspondence and want you to share your experiences with us.

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OWNER'S RECORD

Please take a moment to write down the following information from your Pacific Spa in the space provided below. This information may be needed should you wish to acquire additional items for your spa or if service is required. Please consult with your dealer to ensure the accuracy of this information.

Date Purchased: _____

Date Installed: _____

Dealer Name: _____

Dealer Address: _____

Dealer Phone: _____

Spa Model: _____

Serial Number: _____

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SAFETY INSTRUCTIONS

This manual provides safety tips, installation instructions, operating directions and maintenance procedures to help ensure the safety of those enjoying your spa, and to protect it from potential damage. Please follow these instructions carefully and retain this manual for future reference.

Safety Warnings and Precautions



READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE YOU INSTALL OR ATTACH ANY ELECTRICAL POWER TO YOUR PACIFIC SPA.

Important Safety Instructions (UI Standard)

1. **WARNING:** A grounding wire connector is provided on your spa unit to connect a minimum No. 8 AWG (8.4mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe or conduit within 5 feet (1.5m) of the unit.
2. **DANGER:** Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this spa unless they are supervised at all times.
3. **DANGER:** Risk of Injury. The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate the spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.
4. **DANGER:** Risk of Electric Shock. Install at least 5 feet (1.5m) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected (bonded) by a minimum No. 8 AWG (8.4 mm²) solid copper conductor attached to the wire connector on the grounding lug, inside the equipment compartment on the equipment box.
5. **DANGER:** Risk of Electric Shock. Do not permit any electrical appliance (i.e. lights, telephone, radio, television) within 5 feet (1.5m) of a spa unless such appliances are built-in by the manufacturer.
6. **WARNING:** To Reduce the Risk of Injury:
 - a. The water in a spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 40°C (104°F) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
 - b. Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 38°C (100°F). If pregnant, please consult your physician before using a spa.
 - c. Before entering the spa, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary (+/- 2°C (5°F)).
 - d. The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
 - e. Persons suffering from obesity or a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using a spa.
 - f. Persons using medication should consult a physician before using a spa since some medications may induce drowsiness, while other medications may affect heart rate, blood pressure and circulation.

SAVE THESE INSTRUCTIONS

Important Safety Instructions (CSA Standard)

(For Canadian spa owners, in conjunction with UL standard)

WARNING: When using this electrical equipment, basic safety precautions should always be followed, including the following:

1. Read and follow all instructions.
2. A green coloured terminal or a terminal marked G (Ground) or GR (Grounding) is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors that supply this equipment.
3. At least two lugs marked “bonding lugs” are provided on the external surface or on the inside of the supply terminal box or compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the spa to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG (13.3 mm²).
4. All field-installed metal components such as rails, ladders, drains or other similar hardware within 3m (10 feet) of the spa shall be bonded to the equipment grounding buss with copper conductors not smaller than No. 6 AWG (13.3 mm²).

Risk of Injury, Health Hazard and Cautions

1. **WARNING:** Children should not use the spa without adult supervision.
2. **WARNING:** Do not use the spa unless all suction guards are installed to prevent body and hair entrapment.
3. **WARNING:** People using medication and/or having an adverse medical history should consult a physician before using a spa. Any persons with heart or circulation conditions or on prescribed medication should consult their physician before using a spa.
4. **WARNING:** People with infectious diseases should not use a spa.
5. **WARNING:** To avoid injury, exercise care when entering or exiting the spa.
6. **WARNING:** Do not use drugs or alcohol before or during the use of a spa to avoid unconsciousness and possible drowning.
7. **WARNING:** Pregnant or possibly pregnant women should consult a physician before using a spa.
8. **WARNING:** Water temperature in excess of 38°C (100°F) may be injurious to your health.
9. **WARNING:** Before entering the spa, measure the water temperature with an accurate thermometer.
10. **WARNING:** Do not use a spa immediately following strenuous exercise.
11. **WARNING:** Prolonged immersion in a spa may be injurious to your health.
12. **WARNING:** Do not permit electric appliances (i.e. lights, telephone, radio, television) within 1.5m (5 feet) of this spa unless such appliances are built-in by the manufacturer.
13. **CAUTION:** Maintain water chemistry in accordance with manufacturer's instructions.

SAVE THESE INSTRUCTIONS

Hyperthermia

Prolonged immersion in hot water may induce hyperthermia. A description of the causes, symptoms and effects of hyperthermia are as follows:

Cause: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 37°C (98.6°F).

The symptoms of hyperthermia include drowsiness, lethargy and an increase in the internal temperature of the body.

The effects of hyperthermia include:

- unawareness of impending hazard
- failure to perceive heat
- failure to recognize the need to exit spa
- physical inability to exit spa
- fetal damage in pregnant women
- unconsciousness and danger of drowning.

WARNING: The use of alcohol, drugs or medication can greatly increase the risk of fatal hyperthermia.

Additional Safety Precautions

1. Never bring into or operate any electrical appliances inside the spa or when you are wet unless the appliances are built-in by the manufacturer.
2. To maintain safe and clean water and prevent possible damage to spa components, proper chemical maintenance of spa water is necessary. Use only dealer approved accessories and recommended spa chemicals and cleaners.
3. Enter and exit the spa slowly and carefully, wet surfaces can be very slippery (use only the spa front access steps).
4. Use and lock the vinyl cover when the spa is not in use (whether it is empty or full). Use the straps and clip tie downs to secure the cover when not in use (lock the cover). This will help to discourage unsupervised children and other persons and/or animals from entering the spa.
5. Do not stand, sit or lie on the cover.
6. Do not leave a spa uncovered or unattended.
7. Follow the spa maintenance recommendations.

SAVE THESE INSTRUCTIONS

**STARTING YOUR PACIFIC SPA**

(In above freezing temperature)

(For instructions on starting your Pacific Spa in below freezing temperature – contact your dealer.)

After your spa has been moved to the final installation site and wired correctly, follow these instructions for start-up.

THE FOLLOWING INSTRUCTIONS MUST BE READ AND FOLLOWED EXACTLY TO ENSURE A SUCCESSFUL START-UP OR REFILL.

The same steps apply each time the spa is emptied and refilled:

1. **ENSURE ELECTRICAL POWER IS OFF** (main breaker and GFCI).
2. **DO NOT CONNECT POWER TO AN EMPTY SPA.** Power to the spa automatically activates the electrical equipment (electronic controls, heater, circulation pump, etc). Serious damage to the equipment components may result and this is a non-warranty component failure.
3. **DO NOT FILL WITH HOT WATER** (above 35°C/95°F) If starting the spa in below freezing conditions, add 12" of cold water, then hot and cold can be mixed to maximum of 37.8°C/100°F. Call your dealer for more details.
NOTE: The default set point water temperature is 35°C/95°F.
4. Every Pacific Spa has been tested during the manufacturing process to ensure functionality, performance, reliability and complete customer satisfaction. As a result, a small amount of water may have remained in the system after testing. Clean the interior of the spa of any remaining debris. Completely wipe interior of the spa with a wet sponge or a soft rag. Do not use any abrasive cleaner, metal brushes or tools. Windex or isopropyl alcohol will remove most stains. Call your dealer for more details.

- Before filling your spa for the first time, remove the pump compartment door, ensure the hose bibb/drain tap (located at the bottom of one of the front corners) is closed and check that the unions on either side of the pump are hand tight and the knife valves (if installed) are fully open.

Close all drains and fill the spa with water by removing the filter lid, weir, skimmer basket and filter. Then insert the end of a garden hose into the filter canister (this will avoid airlocks – do not fill the spa by pouring water into the shell) and begin filling the spa to the recommended level. The water level of the spa should be approximately one inch above the highest jet in the spa, at least two third's of the way up the opening of the skim filter. Low water levels can cause damage to the pump and heater unit.

Check all connections for leaks and hand tighten union fittings as required. The equipment may shift slightly during transportation, making hand tightening of the union fittings difficult. Should this occur, simply loosen or remove the screws securing the pump and module to the base and shift the components into alignment so that the unions can be hand tightened.

NOTE: Never fill your spa with soft water. Soft water makes it extremely difficult to maintain the proper water chemistry and may cause the water to foam, which will ultimately harm the finish of the spa and void your warranty.

- Install the filtering equipment. Reinstall the filter, skimmer basket, weir and filter lid once the spa is filled and check that the filter is installed correctly.
- After the spa has been filled with water (when the water level is adequate to avoid pump damage) and the equipment compartment door is secured, power must be applied to the spa:
 - First, activate power to the sub panel from the main house panel (turn on circuit breaker at the main electrical panel).
 - Open the door of the electrical sub panel and reset the GFCI breakers.

The breaker should be tested prior to each use:

- Push the "TEST" button on each GFCI breaker and observe it click OFF.
- Wait 10 seconds, then push the breaker switch to the OFF (down) position (completely disengaged), then push the breaker switch to the ON (up) position.
- Close and secure the sub panel door.

NOTE: Do not expect to feel hot water immediately coming from the jets. The highly efficient heaters are designed to provide cost-saving, low-level heating. Initially the spa will take approximately 7–8 hours to reach the set point. This performance figure is based on an average sized, triple layer insulated spa with a four inch thick insulated spa cover. It also depends on spa capacity, fill water temperature and ambient temperature.

START UP GUIDE Y SERIES

NOTE: This set up should be performed by the dealer or spa technician when installing the spa and powering it up for the first time

Power Up and Breaker Setting.



IMPORTANT Please read the following before starting the device.

Verify that all accessories are linked to the ground lug and connected to the to the control system.

A minimum flow of 68 LPM (18 GPM) is required. Ensure that all valves are open in the spa plumbing and that the water flow is sufficient between the main pump and the water heater.

Turn on the breaker.

in.flo dry-fire protection

At start up, the in.flo's detector verifies the water flow according to the following sequence:

The Pump 1 or the circulation pump runs for a period of 2 to 5 minutes.

The display will show "--" during the flow verification. After this time, the system confirms if the flow is adequate or not.

If the flow is sufficient, the temperature of the water is displayed on the keypad screen. When the water has reached the set point temperature plus 0.45°C (0.8°F) the water heater turns off.

Display sequence at start up (every parameter is displayed for 2 seconds)



Lamp test
All segments and LEDs light up.



Software number



Software revision



Low-level selected
Low-level selected from the low-level menu.



It is important to specify the current rating of the GFCI/RCD used to ensure a safe and efficient current management (and reduce the potential of GFCI/RCD trips).

Press and hold the **Prog.** button until you access the breaker setting menu (the programming menu will appear first). If your control system is equipped with the phase configuration menu, it will appear before the breaker setting menu.

Note: If the keypad does not have the Prog. Key, use the Light key.



Choose the number of phases supplying your spa (1 to 3). Use the **Up** or **Down** keys to select the number of phases and press on the **Prog.** key to confirm your selection.

in.yj

Selecting number of phases

UL	Menu not available
CE	1 or 2

in.ye et in.yt

Selecting number of phases

UL	Menu not available
CE	1, 2 or 3
UL Swim*	1 or 2
CE Swim*	1, 2 or 3

in.xe

Selecting number of phases

UL	Menu not available
CE	1 or 2
UL Swim*	1 or 2
CE Swim*	1, 2 or 3

**For more information see the Swim spa system TechBook*



The values displayed by the system correspond to 80% of the maximum amperage capacity of the GFCI.

Use the **Up** or **Down** keys to choose the desired value.

The value can typically be modified from 10 to 48 A. Press on the **Prog.** key to set the breaker rating.

The tables below indicate the typical value of b for different GFCI/RCD ratings.

Choose the one that corresponds to your breaker.

Note: Every OEM has its own pre-established configurations.



in.yj

GFCI/RCD	b
50A	40A*
40A	32A
30A	24A
20A	16A
16A	12.8A
15A	12A



in.ye et in.yt

GFCI/RCD	b
60A	48A
50A	40A
40A	32A
30A	24A
20A	16A



in.xe

GFCI/RCD	b
60A	48A
50A	40A
40A	32A
30A	24A
20A	16A

* Only available on in.yj-3.

QUICK REFERENCE CARD

Please consult your spa user manual for complete information on the features of your spa system.

in.k1000+

full-featured colour capacitive touchscreen display keypad for spas

Gecko's new version of its in.k1000 capacitive touch screen display keypad boasts a new state of the art touch screen with more precise fingertip contact areas for accurate target selection, enabling easier and more precise interactions. in.k1000+ features optimal water resistance and lots of memory.



All-on or all-off key (one touch activation)

mode selection wheel (settings and accessories)

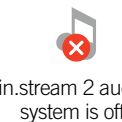
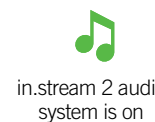
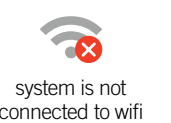
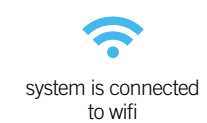
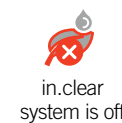
direct to function selection wheel (settings and additional options)

on-screen system message and reminder

interactive display icons (main spa functions)

notification icons

Notification icons at the top right-hand side of the screen show the status of connected value-added accessories.



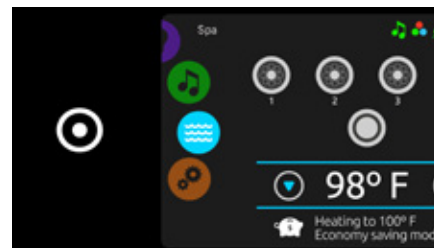
spa functions

Quick and easy step-by-step instructions to control the main functions and to configure system settings of your spa from its in.k1000+ main spa keypad.



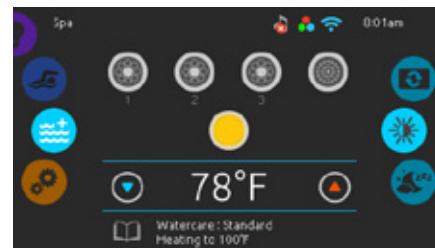
Turn Keypad On

Three minutes after the last pump is turned off, the screen will shut off if there is no touch activity. Touch the screen to turn on the keypad. Then follow the instructions on the screen to access the main screen.



All-On, All-Off Target Key

in.k1000+ features an all-on or all-off one touch activation key. When pressed, it stops or starts all working components and accessories at once.

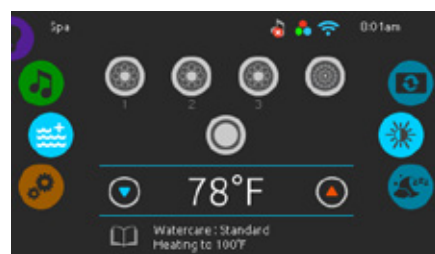


From the home page, you can access the following modes:

- Swim (if configured)
- Sanitization (with in.clear connected)
- Audio (with in.stream 2 connected)
- Colour (with in.mix installed)
- Spa
- Settings

To select a mode, slide the left wheel up or down until the desired icon menu is highlighted in the middle.

spa mode



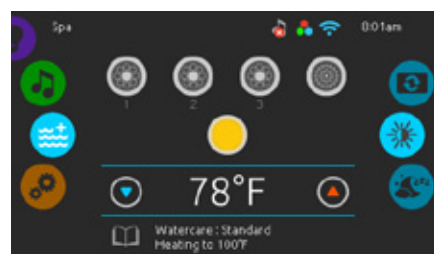
Spa Mode

To select the spa mode, slide the left wheel up or down until the spa icon is highlighted in the middle.

The home page will display its equipment start or stop keys, up and down buttons, water temperature, messages and quick access to display options:

- Display orientation
- Display contrast

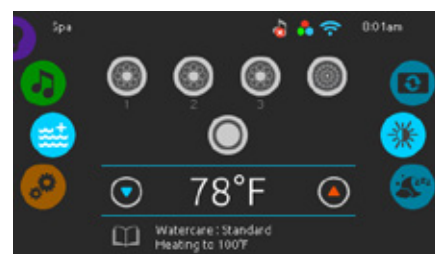
To select an option, slide the right wheel up or down until the desired icon menu is highlighted in the middle.



Start or Stop Accessories

To start or stop an accessory (i.e. pump, blower, light) touch the associated icon. Icons will become animated when their accessory is turn on, and animation will stop when turned off.

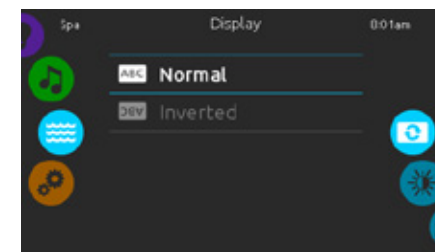
Icons on the screen will reflect the speed or state of the devices running on your spa. When an accessory has more than one speed, press the button until it reaches the desired speed.



Water Temperature

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

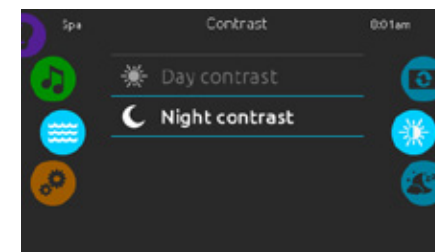
When the set value is lower than the current temperature Cooling to xx.x will appear below. When the set value is higher than the current temperature, Heating to xx.x will be indicated under the value. Normally there is a short delay before the heating starts, during which Heating Suspended is indicated under the value.



Display Orientation

To modify the display orientation settings, slide the right wheel until the display orientation icon is highlighted in the middle.

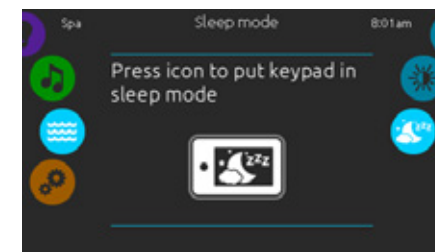
Simply touch the line of the orientation you want to select.



Display Contrast

To modify the display contrast settings, slide the right wheel until the display contrast icon is highlighted in the middle.

Simply touch the line of the contrast you want to select.



Sleep

Press the icon key to go directly into the sleep mode. In sleep mode, water splashing on the keypad can not inadvertently start/stop a pump.

settings

You can use the Settings mode to manage settings of your spa system.



To select the settings mode, slide the left wheel up or down until the settings icon menu is highlighted in the middle.

In the Settings page you can access the following:

- Water Care
- Heat Pump (if installed)
- Maintenance
- Date & Time
- Keypad
- Electrical Configuration
- WiFi
- Miscellaneous
- About

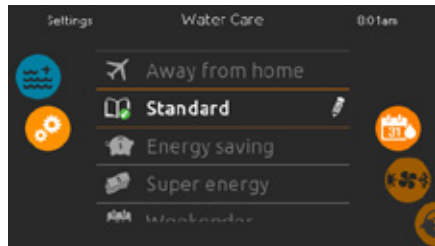
To select an item, slide the right wheel until the desired icon is highlighted in the middle or press on the menu name.

water care

The Water care page will help you set up your ideal filtration and heating settings. Choose, set or modify one of the five suggested modes depending on your needs at any given time.

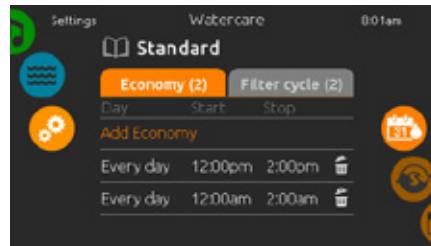
 Away from Home In this mode the spa will always be in economy; the set point will be reduced by 20°F.	 Standard The spa will never be in economy mode and will be filtering according to the pack's low level configuration.	 Energy Savings The spa will be in economy mode during the peak hours of the day and resume normal mode on the weekend.	 Super Energy The spa will always be 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.
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modifying water care schedules



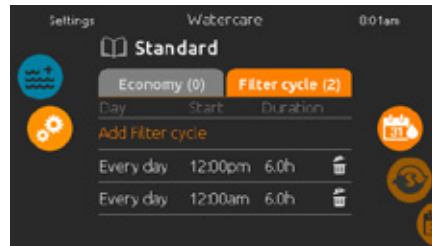
Water Care

To modify a Water Care category, touch the pencil icon at the right end of the desired category to open the selected menu.



Economy

Touch the Economy tab to change the economy schedule. You can add economy schedules by touching the orange line labelled "Add Economy". To delete a schedule, touch the garbage can icon at the right end of the desired line.



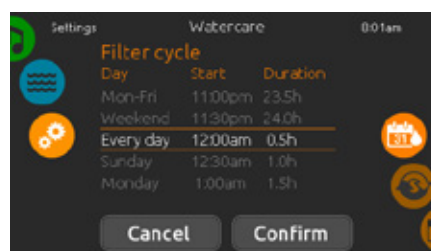
Filter Cycles

Touch the Filter cycle tab to change the filter cycle schedules. You can add filtration schedules by touching the orange line labelled "Add Filter cycle". To delete a schedule, touch the garbage can icon at the right end of the desired line.

In Economy mode, the set point will be reduced by 20°F, which means that the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.

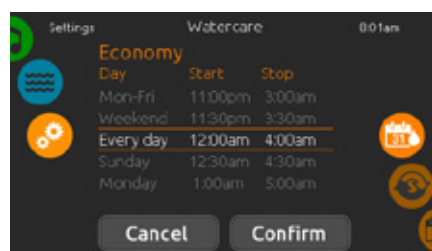
The filtration schedule shown on the screen will be applied to the main filtration pump, most likely pump 1. If your spa uses a circulation pump configured to run 24 hours, the screen will show you the purge setting instead of filtration.

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.

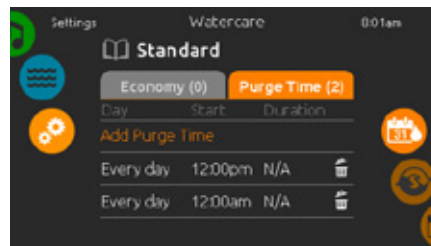


You can modify the programmed schedules by selecting one and adjusting the schedule.

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.



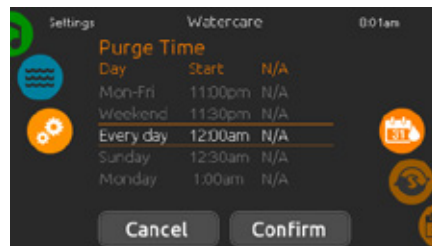
Once you have set the schedule, press "Confirm". If you don't want to keep any changes, press "Cancel" or use the calendar icon to go back.



Purges

Touch the Purge Time tab to change the purge settings. You can add purges by touching the orange line labelled "Add Purge Time".

To delete a schedule, touch the garbage can icon at the right end of the desired line.









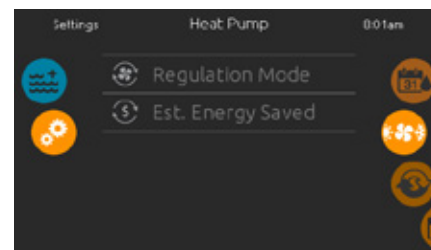
You can modify the programmed purges by selecting one and adjusting the schedule.

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 purge, press "Confirm". If you don't want to keep changes, press "Cancel" or the calendar icon.



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 temperature 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.
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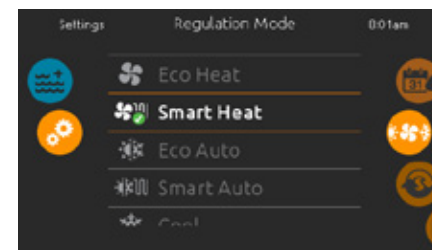
Heat Pump

From the Settings page, you can access the Heat Pump menu, which gives you access to the following Heat Pump Modes:

- Eco Heat
- Smart Heat
- Eco Auto
- Smart Auto
- Cool
- Electric

Slide to make a selection and press on it to confirm. When you select a Heat Pump Mode, you will be asked to confirm your choice.

Note: If a Gecko Brand Heat Pump (in.temp) is connected to your spa setup, the following Menu will appear when selecting Heat Pump in the Settings Menu instead of the Regulation Mode Menu.

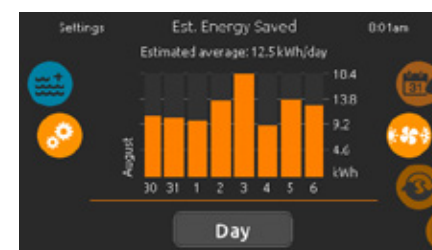


Regulation Mode

The Regulation Mode page will help you set up your ideal Heat Pump regulation settings. Choose between Eco Heat, Smart Heat, Eco Auto, Smart Auto, Cool and Electric, depending on your needs. Touch the Regulation Mode name to choose your setting. A green checkmark will appear on the selected icon to confirm your choice.



When you select another Regulation Mode setting, a confirmation window appears to prevent inadvertent selection that could result in a setup modification for your spa.



Est. Energy Saved

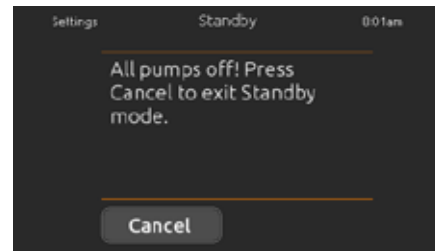
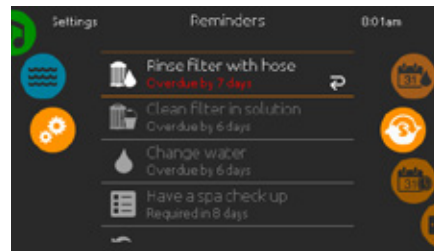
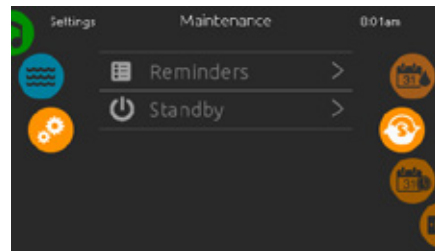
Only available with a Gecko Brand Heat Pump (in.temp)

In this section, you can view your estimated kWh economy graph. These calculations are made while using in.temp to heat your spa. The economy estimate can be viewed in days or months format by pressing the button below the graph.

Disclaimer

The data provided by this tool is estimated by sampling numerous operating parameters in real time in order to generate an estimate that is as close as possible to reality. The data is presented to the users with the best intention but Gecko Alliance Inc makes no warranty about its accuracy or completeness. To increase the accuracy of those estimates, ensure the heat pump is well maintained and operates in the recommended conditions in regards to water flow, air exchange through the discharge panel, adequate compressor pressure and cleanliness of pipes and heat exchanger.

maintenance



Maintenance

To modify Maintenance settings, slide the right wheel until the Maintenance icon is highlighted in the middle.

From the Maintenance page you can access the following:

- Reminders
- Standby

Simply touch the line of the item you want to change.

Reminders

The in.k1000+ keypad will provide reminders about maintenance required on your spa, such as rinsing or cleaning the filter. Every task has its own duration based on normal use.

The Reminders menu allows you to check the time left before maintenance is required, as well as to reset the time once a task has been completed.

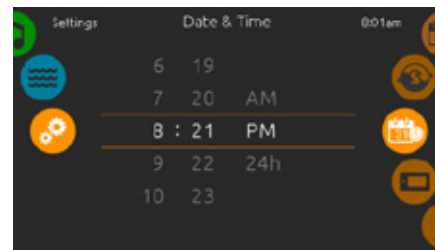
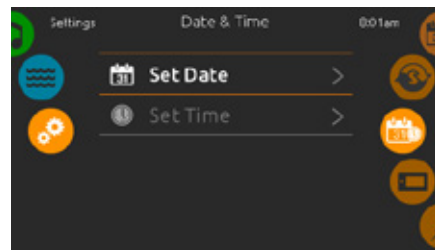
To reset a task, select it by pressing the curved arrow, then confirm when prompted. Once you have confirmed, the task will be reset.

Standby

The Standby mode allows you to service your spa. Pumps will stop for 30 minutes and will automatically restart afterward.

The normal page will return once the pumps have been restarted.

date and time



Date & Time

To modify Date & Time settings, slide the right wheel until the Date & Time icon is highlighted in the middle.

Simply touch the line of the item you want to change.

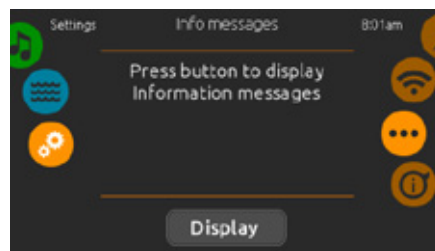
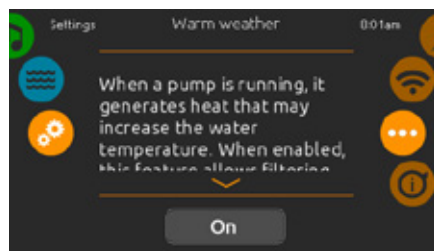
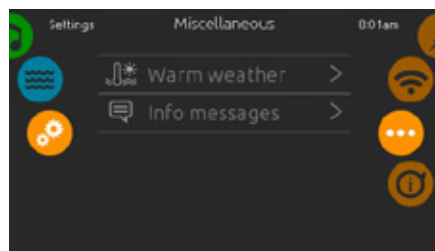
Set Date

Here you can adjust the year, month and day. Simply swipe up and down the column you want to change, and select the desired value. When done, touch the calendar icon at the right of the screen.

Set Time

Here you can change the hour, minute and time format. Simply swipe up and down the column you want to change, and select the desired value. When done, touch the calendar icon at the right of the screen.

miscellaneous



Miscellaneous

This menu gives access to modify the Warm Weather option and Information messages in the media centre.

Warm Weather

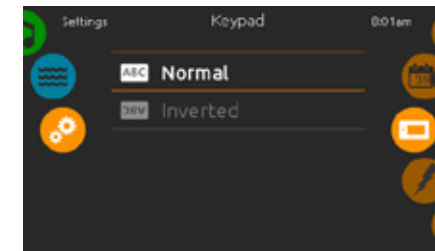
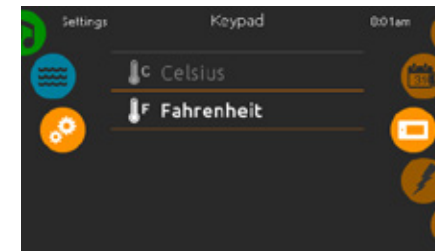
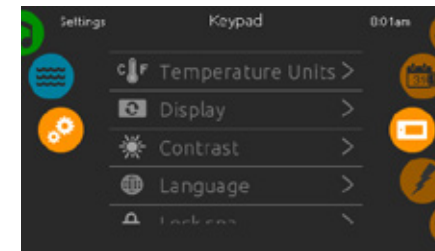
When pumps are running, they produce heat that may increase your water temperature. Warm weather gives you the option to bypass the pack filtration over-temperature feature. When Warm weather is "OFF" the filtration over-temperature is disabled and your spa filtering will continue even if the water temperature is high.

Info Messages

Press Display/Hide key to modify the message display. If Hide option is selected, smart winter mode message will only appear when a SWM purge is in action. Otherwise the message will always appear when the spa is in a SWM condition. If Hide option is selected, heating suspended and filtering suspended messages will not appear.



keypad settings



Keypad Settings

To modify Keypad settings, slide the right wheel until the Keypad icon is highlighted in the middle.

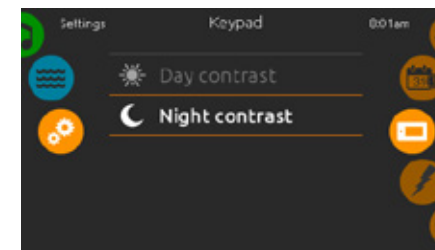
Simply touch the line of the item you want to change.

Temperature Units

Use this page to set or change the temperature in °F or °C units.

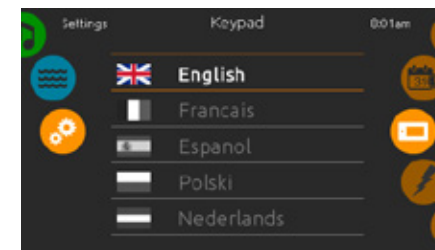
Display Orientation

Use this page to set or change the normal or inverted display orientation.



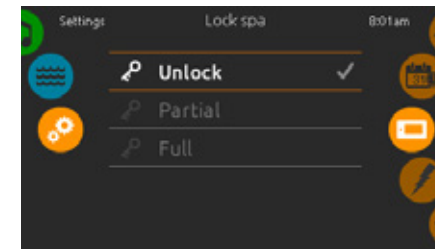
Display Contrast

Use this page to set or change the display Day or Night contrast.



Display Language

Use this page to set or change the display language.

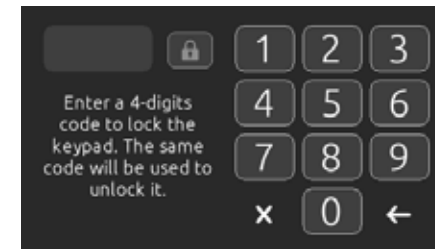


Keypad Lock/Unlock (optional)

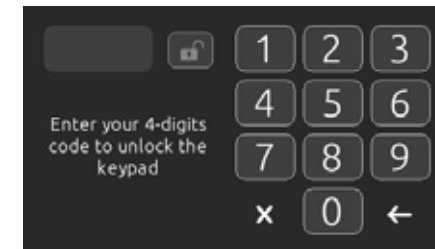
When this option is enabled, the user can partially or completely lock the keypad.

When Full lock is selected, all functions are locked.

In Partial lock, you may only activate accessories. Settings may not be changed in this mode.

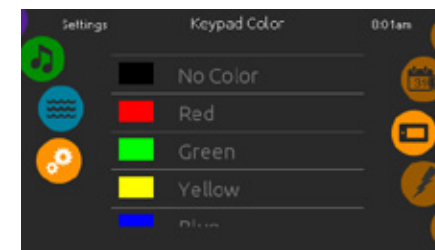


When the user wants to lock the keypad, s/he is asked to select a 4-digit code. The same code will be needed to unlock the keypad.



Next time the user wants to lock the keypad, s/he will be prompted again to select a 4-digit code (same functionality as a safe in a hotel room).

The keypad can be unlocked with a universal unlock code (3732) or by a reset of the keypad.

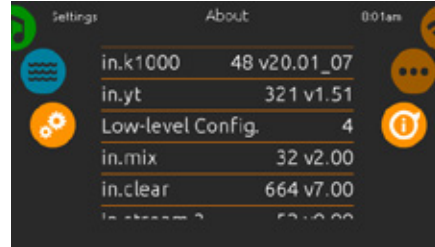


Keypad Colour (optional)

If this option is available (depending on the spa configuration) the keypad rim colour can be changed.

Eight pre-defined colours are available. If the in.mix is installed, the keypad rim colour can also be associated to an in.mix zone.

about your spa system

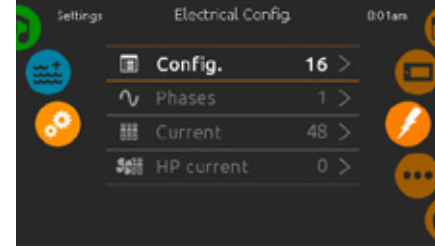


About

To get information about your spa system, slide the right wheel until the About icon is highlighted in the middle.

Information about the in.k1000+ software number and the revision numbers of the various components of your system will be displayed.

electrical configuration



Please do not make changes in this section unless you are a qualified electrician.

swim mode

(only available if the swim option is activated in the spa configuration)



mode selection wheel:
swim mode

direct to function selection wheel:
training drills - selection - swim settings -

The duration of all training drills and the Intensity of all pre-set training drills are set on this page. The number of available intensities depends on the swim spa configuration and on the selected training drill, with the name displayed at the top of the screen. The intensity of personalized drills is set during the Drill Creation and can be edited from the Training Drills selection page.

From this page, you can also access the following:

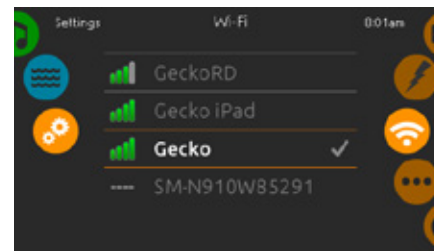
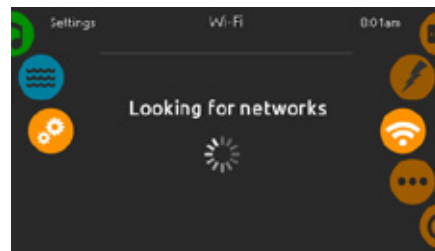
- Training drills selection
- Swim settings

To select an item, slide the right wheel until the desired icon is highlighted in the middle.

When ready, press Start to begin the workout session. Resume and Stop buttons are also available when a swim session was previously paused.

wifi

(This function is available only if an in.touch module is connected to your system.)



WiFi Settings

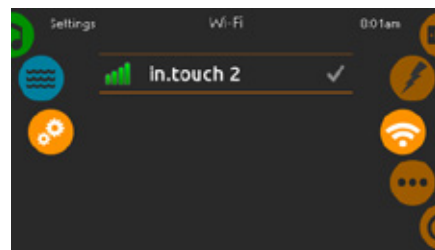
To modify WiFi network settings, slide the right wheel until the WiFi icon is highlighted in the middle.

WiFi Networks

After a few seconds the available networks will appear on-screen, as well as their signal strength. The selected network will be identified by a green check mark. Swipe up or down the list to select your network.

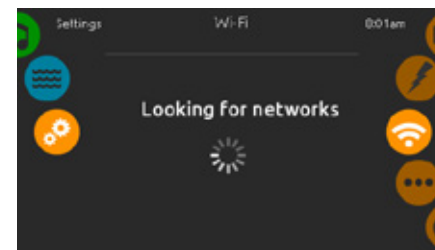
WiFi Network Password

If the WiFi network is password protected, enter it at the keyboard prompts. Use Enter key to validate the password. If no password is required, the in.touch will connect automatically.



WiFi (in.touch 2)

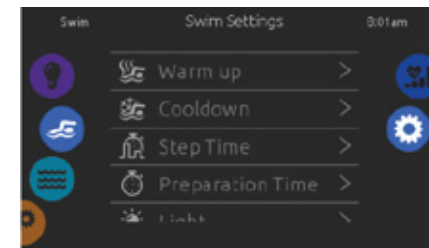
When in.touch 2 is detected, this network will appear (in.k1000+ version 12 and older).



in.touch Module Not Connected

If the in.touch module of your spa system is not connected, this message will be displayed.

swim settings



In the Swim Settings page, you can access the following parameters:

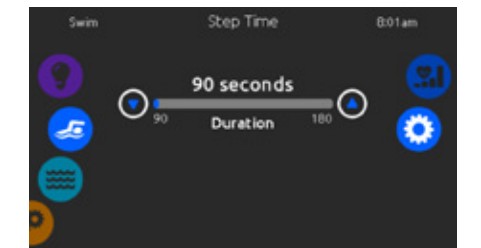
- Warm up
- Cooldown
- Step Time
- Preparation Time
- Light (requires in.mix installed)



Warm Up & Cooldown

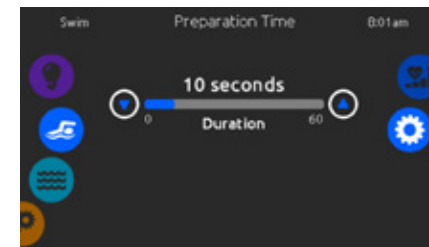
These pages allow you to adjust the duration and intensity of the Warm up and Cooldown portion of your training drill. If no Warm up or Cooldown sessions are desired, set their respective duration to 0 minutes.

Note that Warm up and Cooldown settings apply to all training drills.



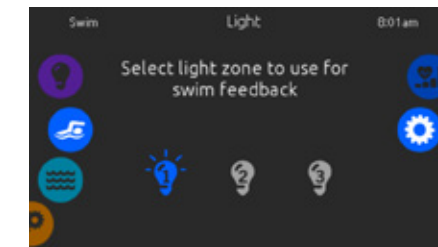
Step Time

This page allows you to adjust the workout session Step Time. Step Time applies to all training drills except Endurance, Power and Personalized.



Preparation Time

This page allows you to adjust the Preparation Time. The preparation allows the swimmer to take place between the time when s/he presses the Start button of the Swim page and the time when the swimming workout starts. If no Preparation Time is desired, set Duration to 0 seconds.



Light (requires an in.mix installed)

This page allows you to select which in.mix zone to use for swim feedback. If at least one zone is selected for feedback, it will blink and change colour depending on the progression during the swim workout:

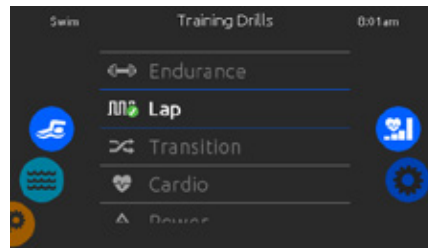
1. Blinks in blue during the preparation countdown
2. Changes to yellow during the warm up session
3. After the warm up, colour tones range from light blue to bright red depending on swim intensity
4. Blinks twice when the intensity changes during the workout
5. Changes to a light blue colour during the Cooldown session

training drills

The Training Drills selection page allows you to choose the desired workout drill.

The currently selected drill is highlighted and has a green checkmark.

To select another drill, simply scroll through the list and click on its name.



Endurance

In this training drill, the swimming workout will be executed at a constant intensity for the entire duration.



Lap

This training drill will perform high and low intensity intervals of equal step time.



Transition

This training drill will perform a series of equal steps at random intensities.



Cardio

This training drill will perform two successive steps at high intensity for one step at low intensity.



Power

This training drill will perform a "pyramid" program where the intensity will progressively increase until the maximum is reached. It will then decrease progressively to end at low intensity.



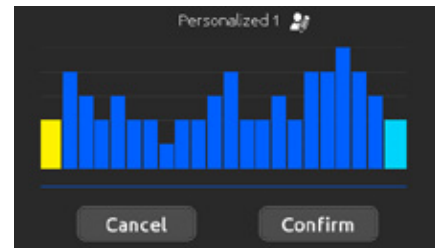
Personalized

Three personalized training drills are available and can be edited to create a custom workout pattern. To edit a personalized training drill, touch the pencil icon at the right end of the desired personalized drill to open the training drill edit window.



personalized workout edits

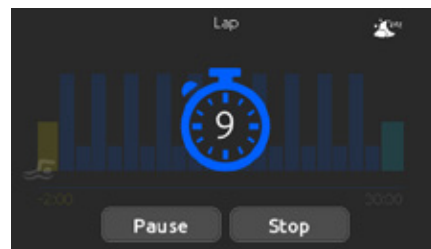
This page allows you to create a personalized training drill. Simply draw the desired workout pattern on the screen and/or adjust each individual step to the desired intensity. The duration of the 20 available steps will be adjusted to fit the duration selected on the main screen.



Personalized training drills can also be renamed by clicking the pencil icon located to the right of the workout name.

When the personalized pattern is completed, press Confirm to save your changes and return to the swim window. You can also press Cancel at any time to exit without saving your modifications.

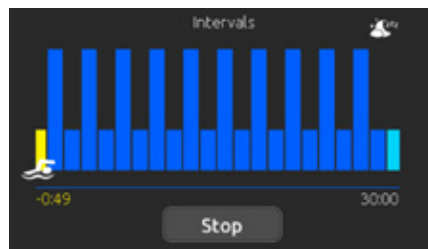
swim workout



When you press the Start button, the preparation counter appears and starts to decrease in time, allowing the swimmer to get in position before the swimming session starts. From there, you can press Pause to suspend or Stop to interrupt the swim session and return to the main swim page.

The keypad can also be put in sleep mode by pressing the Sleep icon located at the top right of the screen (in order to prevent water from splashing on the keypad and inadvertently stopping the swim session).

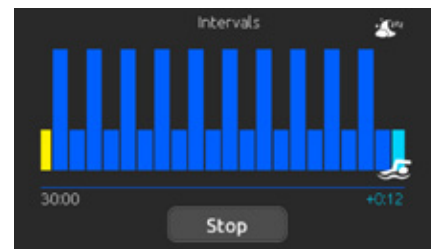
During the workout session, a summary of the session is shown.



A swimmer icon is also displayed on the screen and will move toward the right as the swim session progresses.

A yellow countdown decreases during the warm up portion of the swim session while the set workout time is displayed on the right.

Once the warm up timer reaches zero, the workout session begins and will follow the selected training drill, shown on the screen. The workout timer on the right will start to decrease as the elapsed workout time (displayed to the left of the screen) increases.



When the workout program is completed, the swimmer enters the cool-down portion of the session, displayed in light blue.

The elapsed workout time remains on the left and a light blue timer will increment the time on the right, indicating the time spent in cool-down.



audio mode

(only available if the system detects a connected in.stream 2 audio station)



mode selection wheel:
audio mode

mute
last track
play/pause
next track

direct to function selection wheel:

on/off - speakers - source - bluetooth -

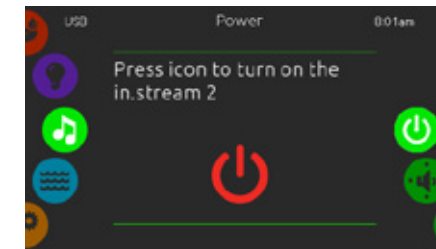
To select the audio mode, slide the left wheel up or down until the audio icon menu is highlighted in the middle.

In the Audio page you can access the following:

- in.stream 2 on/off
- Audio source selector
- Speaker calibration
- Disconnect Bluetooth

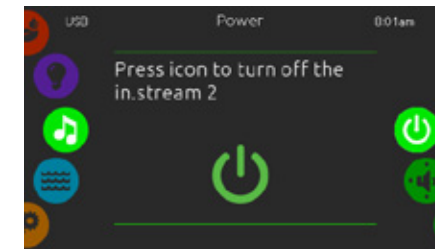
To select an item, slide the right wheel until the desired icon is highlighted in the middle.

on/off



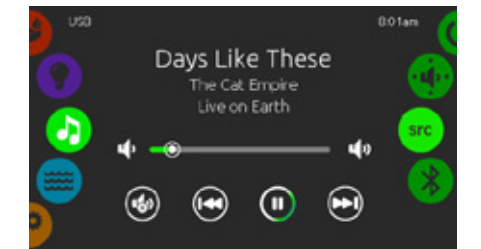
Turn in.stream 2 ON (icon red)

Slide the right wheel until the power on/off icon is highlighted in the middle. Press the icon at the centre of the screen to turn in.stream 2 on.



Turn in.stream 2 OFF (icon green)

Press the icon at the centre of the screen to turn in.stream 2 off.



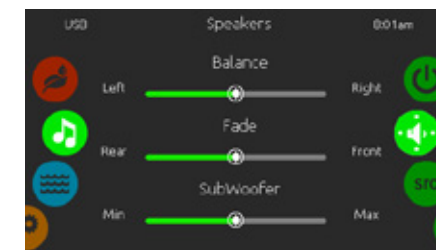
Main Display

Press Play/Pause to start or pause playback of audio files.

Drag the volume slider to adjust the volume or tap the Mute button to mute or unmute sound.

Press the Last Track or Next Track buttons to go to the previous song or skip to the next.

speakers setting



To Modify Your Speaker Settings

Slide the right wheel until the speaker calibration icon is highlighted in the middle.

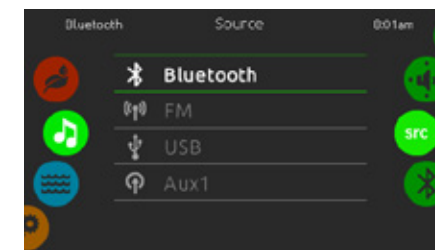
You can adjust:

- Balance
- Fade
- Subwoofer

Use the sliders to change the speaker settings at the desired level.

The Fade and Subwoofer sliders will only appear on the screen if the corresponding speakers are installed on the in.stream 2.

audio source selector



To Select An Audio Source

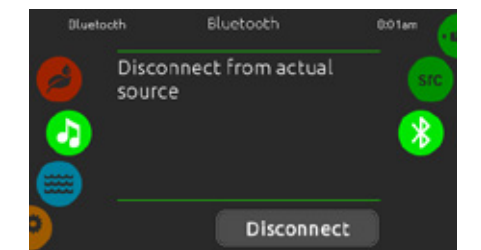
Slide the right wheel until the source icon is highlighted in the middle. From the menu list, select the desired source from these available:

- Bluetooth
- FM
- USB
- Aux. 1

Note that only the sources installed on the in.stream 2 will be displayed in the source menu.

Note that the Play/Pause and Change Track functions apply to devices using Bluetooth technology and USB, and will not work when Aux is selected as the source.

disconnect bluetooth

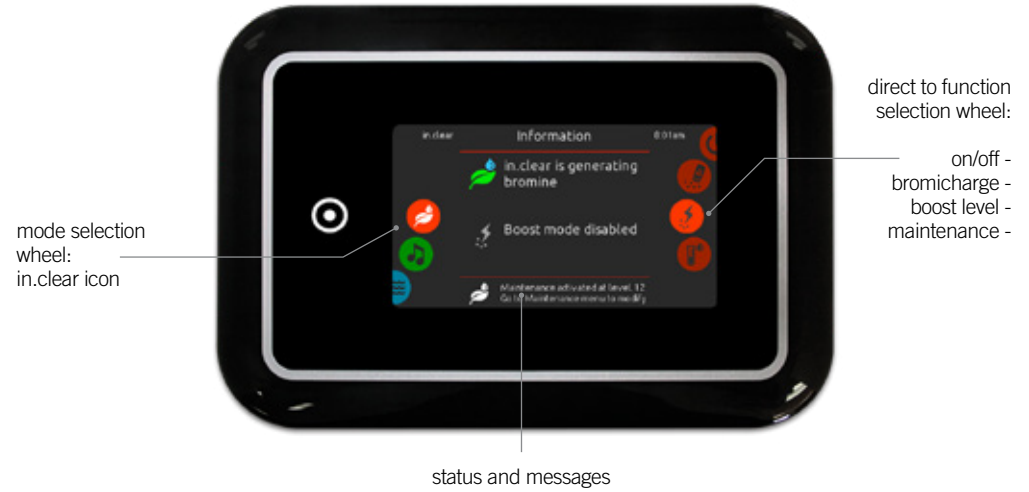


If a device with Bluetooth technology is connected to the in.stream 2, you can disconnect it by pressing the Disconnect key at the bottom of the screen.

Doing so will also prevent the in.stream 2 from automatically reconnecting to this specific device until it has been reconnected using the device itself.

sanitization mode

(only available if the system detects a connected in.clear water sanitization system)



To select the sanitization mode, slide the left wheel up or down until the in.clear icon menu is highlighted in the middle.

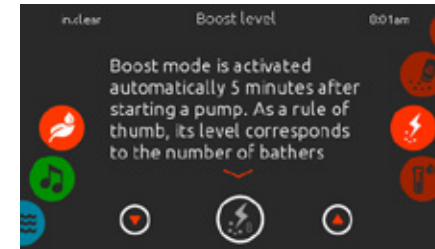
In the sanitization page you can access the following:

- in.clear on/off
- Bromicharge
- Boost level
- Maintenance level

To select an item, slide the right wheel until the desired icon is highlighted in the middle.



boost level



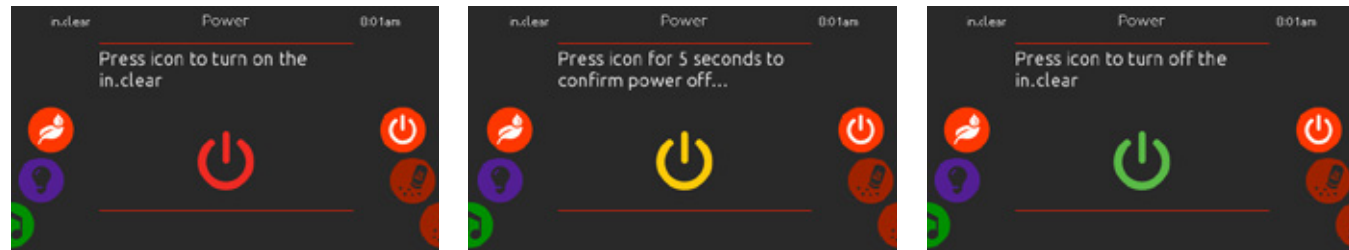
Modify the Boost Level

Boost mode is activated automatically five minutes after starting a pump. Boost mode increases the bromine generation rate to keep the water clear, clean and soft. As a rule of thumb, its level corresponds to the number of bathers.

To modify the boost level, slide the right wheel until the boost icon is highlighted in the middle and use the up or down arrow keys to adjust the level.

Click on the the level icon to confirm your selection.

on/off



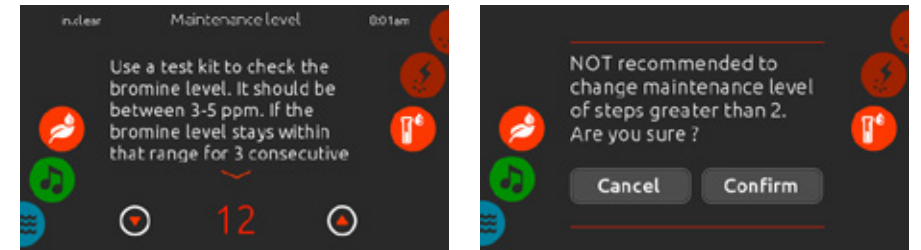
Turn in.clear ON (icon red)
Slide the right wheel until the power on/off icon is highlighted in the middle. Press the icon to turn in.clear on.

Turn in.clear OFF (icon yellow)
Press icon for 5 seconds to confirm power off.

Turn in.clear OFF (icon green)
Press the icon to turn the in.clear off.

Note: Use a test kit to check the bromine level. It should be between 3-5 ppm. If the bromine level stays within that range for three consecutive days, your maintenance level is well adjusted.

maintenance level



Modify the Maintenance Level

To verify or modify the maintenance level, slide the right wheel until the maintenance icon is highlighted in the middle.

The recommended maintenance level is 12.

Use the Up or Down arrow keys to adjust the level.

The level can be adjusted by increments of "2" using the Up and Down arrow keys.

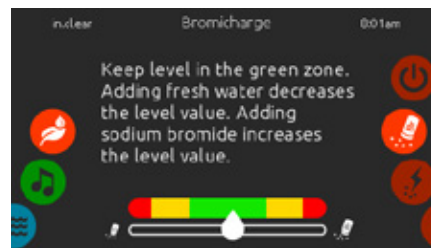
Note that it is not recommended to change the maintenance level at steps greater than "2". A confirmation will be asked by the system if you do.

If you do change the maintenance level steps, retest the bromine level the day after. If the bromine is higher than 5 ppm, decrease the maintenance level. If the bromine is lower than 3 ppm, increase it. Repeat until the test reads a bromine level in the 3-5 range.

bromicharge™ level

Note: When performing a test, the BromiCharge™ gauge indicates the approximate sodium bromide level of the spa water.

The green zone in the centre area of the gauge should be targeted for optimal performance.



To perform a water test, slide the right wheel until the add BromiCharge™ icon is highlighted in the middle.

There is no need to add sodium bromide if the indicator is in the green zone.

When adding sodium bromide, the gauge indicator will gradually shift to the right. When adding clean water to the spa, the indicator will shift to the left.

In order to achieve the proper level, start pumps and add 227g (0.5 lb) of BromiCharge™ at a time and always allow five minutes for the gauge to react before adding more sodium bromide.

colour mode

(only available if in.mix is detected among the spa accessories)

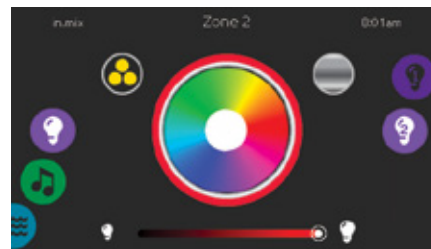


To select the colour mode, slide the left wheel up or down until the in.mix icon menu is highlighted in the middle.

In the colour page you can access the following:

- Zone Selection
- Changing Colours
- On/Off
- Synchronizing Zones
- Intensity

in.mix functions



Zone Selection

To select a zone, turn the right wheel until the desired icon is highlighted in the middle. This selection allows you to modify its colour.

Changing Colours

Once a zone has been selected, use the colour wheel or the rainbow icon to choose the desired colour.

On/Off

There are two ways to turn in.mix on or off. The first is by using the Light icon on the SPA Screen. The second is by touching the light bulb icons located each side of the intensity bar.

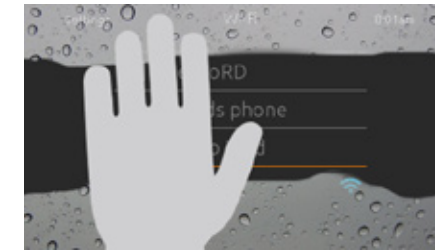
Synchronizing Zones

The synchronization/desynchronization icon allows you to match the colour of the selected zone with the other zones.

Intensity

Located at the bottom of the screen, the slider allows you to modify the intensity of the colour.

too much water on display

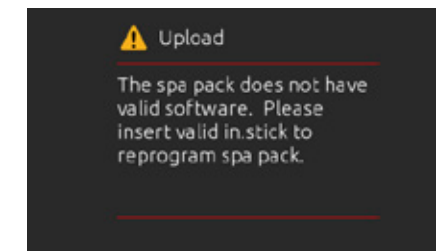
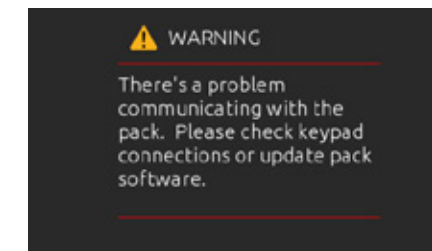


Wipe Screen

This message appears when too much water is detected on the touch screen. Simply wipe away excess water.

installation error messages

Upon connecting the in.k1000+ to your spa system, you may see one of two error messages. Please follow the instructions in the message or contact your dealer for more information.



Error messages on-screen list and definitions:

Refer to the troubleshooting and error codes section of the TechBook for your spa pack system.

QUICK REFERENCE CARD

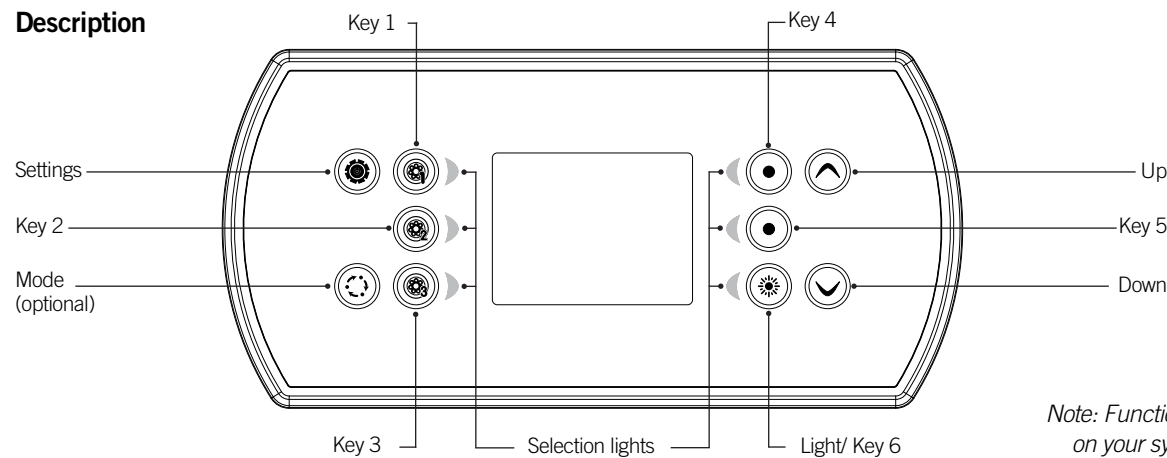
Please consult your spa user manual for complete information on the features of your spa system.



in.k800 intuitive colour keypad

With its bright, full colour display, the in.k800 provides an intuitive user experience, while its screen's high resolution brings spa user interfaces to a new level. Loaded with a large amount of memory and a powerful on-board processor, we have created the seamless graphic interface that spa users have been waiting for.

Description



Note: Functions for keys 1 to 5 will depend on your system's low level configuration.

Main Functions



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.

- 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 is not 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 WiFi network.
 - A red cross indicates that the in.touch module is detected but is not connected to a WiFi 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 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 optional accessories of your spa, such as Audio. If an accessory is not present in your spa configuration, its menu will not appear. Refer to the following section for details about the accessories and their 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.



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
- WiFi (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.



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.



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, depending on your needs. Use key 2 to choose your setting. A green check mark will appear on the selected icon to confirm.

In Energy Savings mode, the set point will be reduced by 20°F (the default pack value) which means that the heating system will not be engaged unless the temperature falls to 20°F 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.



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 check mark 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.

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.

Water Care Modes

Away from Home:
In this mode the spa will always be in economy; the set point will be reduced by 20°F.

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 during the evening hours and 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.

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.

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.k800 keypad will remind you of maintenance required on your spa, such as 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.



Miscellaneous

In this section, you can change the Warm weather and Info messages options (depending on pack configuration).

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 centre. When set to Display, all information messages are displayed without exception. When set to Hide, some detailed messages are displayed when they occur to keep the message centre simple.



About

This section shows information about the in.k800 software number, and the revision numbers of the different components of your system.



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.



Date & 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.



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 colour.

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 to the chosen orientation. The Mode and Menu keys remain unchanged, as well as the accessory keys in the main Spa menu.

You can lock the keypad by selecting one of three 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 top right key for five seconds.

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

WiFi (in.touch only)



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.

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 press 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 key 2.

If the WiFi 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 WiFi network, a green check mark will appear in the WiFi menu, and the network name will appear in the Settings menu.



Audio

The in.k800 can be used with the in.stream 2, in.tune or in.stream audio system.

The Audio section in the Settings menu gives you the option to disconnect or unpair your Bluetooth enabled device when using the in.stream.

The in.stream 2 Settings menu gives you a Bluetooth disconnect feature and an audio control on Fader, Balance and Subwoofer.

For more information on audio functions, see the in.tune, in.stream or in.stream 2 operation section.

in.tune Functions

This menu is only available if the in.tune option was selected during production.

Press the Mode key to access your in.tune.

Turning power on/off

Press the Power key to turn the in.tune on or off.

Selecting the source

Press the Source key to choose between CD, Aux input and Radio.

If no source is selected, the in.tune will use the last selected source.

Play/Pause audio

Press the Play/Pause key to start or pause the audio.

Adjusting the volume

Press the Volume Up or the Volume Down key to increase or decrease the volume.

Changing tracks

Use the Last Track or Next Track keys to change tracks for the CD or Aux input. When in Radio mode, the Last Track and Next Track keys will move through preset radio stations on the selected band. To change bands or preset stations, see your in.tune manual.



in.stream 2 Functions

This menu is available only if the in.stream 2 was detected at power up.

Press the Mode key to access your in.stream 2.

If you are using a device with Bluetooth technology, it must be connected for functions to work.

Please note that the Play/Pause functions apply only to Bluetooth and USB source. Change Track or station functions works with all sources except Aux.

Turning power on/off

Press the Power key to turn the in.stream 2 on or off.

Selecting the source

Press the Source key to toggle between available sources.

Play/Pause audio

Press the Play/Pause button to start or pause the audio.

Adjusting the volume

Press the Volume Up or the Volume Down key to increase or decrease the volume.

Changing tracks

Use the Last Track and Next Track keys to change tracks. Note that on FM these functions can be used to change stations.

Disconnect

This option can be found under the Audio section in the Settings menu.

Fader, Balance and Subwoofer

Fader, Balance and Subwoofer settings can be edited under the Audio section in the Settings menu if your in.stream 2 supports it.

in.stream Functions

This menu is only available if the in.stream option was selected during production.

Press the Mode key to access your in.stream.

If you are using a device with Bluetooth technology, it must be connected for functions to work. Please note that the Play/Pause and Change Track functions apply to devices using Bluetooth technology only, and will not work when Aux is selected as the source.

Turning power on/off

Press the Power key to turn the in.tune on or off.

Selecting the source

Press the Bluetooth key to select a device using Bluetooth wireless technology.

Press the Source key to use a device connected to the auxiliary cable.

If no source is selected, the in.stream system will use the last selected source.

Play/Pause audio

Press the Play/Pause button to start or pause the audio.

Adjusting the volume

Press the Volume Up or the Volume Down key to increase or decrease the volume.

Changing tracks

Use the Last Track and Next Track keys to change tracks.

Disconnect or Unpair Bluetooth

These options can be found under the Audio section in the Settings menu.



in.clear

in.clear-200 (linked version)

The in.k800 keypad can be used with the in.clear sanitization system. The in.clear section allows you to configure your maintenance settings and Boost level.

For more information on maintenance and Boost settings, see the in.clear user manual.

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

Use the Up and Down keys to change the maintenance or Boost value, and key 2 to confirm.

Note: If the maintenance value is modified by more than 2, a warning message will appear with an option to cancel or confirm the change.

in.mix



in.clear Functions

This menu is only available if an in.clear link is detected.

Press on the Mode key to access your in.clear module.

This menu allows you to activate or deactivate your in.clear, to start or stop a Boost and to enter diagnostic mode.

Turning the in.clear on/off

Press the power key to turn the in.clear on or off.

Control the Boost level

Press on the Boost activation/deactivation key to start a Boost, and again to cancel.

To adjust the Boost level use the arrow keys.*

A message indicating that Boost mode is active is displayed at the bottom of the main screen for the duration of the boost.

** See the in.clear user manual for more details about Boost levels.*

in.mix functions

This menu is only present if an in.mix system is detected.

Press on the Mode key to access your in.mix.

By default, the in.mix selects Zone 1 when you access the menu. After the first use the menu will automatically return to the last zone selected.



Diagnostic Mode

Press on the Diagnostic key to start a BromiCharge concentration level test. To exit diagnostic mode, press on the Diagnostic key again. The system will automatically exit after 15 minutes.

In diagnostic mode, the BromiCharge gauge indicates the approximate level of BromiCharge in the spa water. Do not add BromiCharge if the indicator is in the green zone.

When BromiCharge is added, the indicator will move slowly to the right. When water is added to the spa, the indicator will move to the left. To obtain a good level of BromiCharge, start the pumps and add the specified amount of BromiCharge* and allow five minutes for the indicator to adjust before adding more.

For optimal performance, aim for the middle of the green zone.

** For more information on adjusting your BromiCharge, level see the in.clear user manual.*

Zone selection

The zone selection keys allow you to select a zone to modify its colour.

- Press once to select the zone.
- Press a second time to deactivate the zone.

Changing colours

Once a zone is selected, use the arrow keys to change the colours by moving up and down in the colour wheel.

Synchronizing zones

The synchronization/desynchronization key allows you to match the colour of the selected zone to the other zones.

QUICK REFERENCE CARD

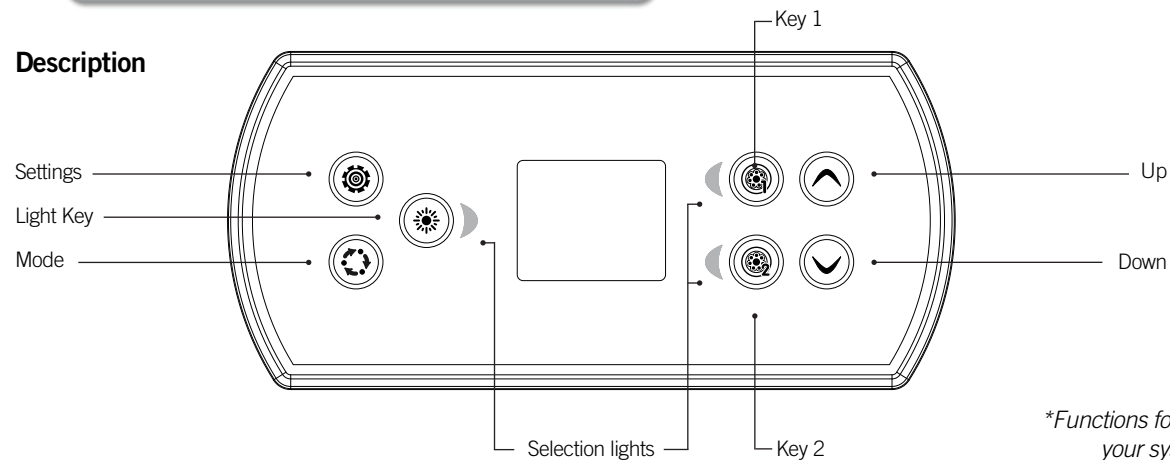
Please consult your spa user manual for complete information on the features of your spa system.



in.k500 intuitive colour keypad

The in.k500 is built with all the great features you've come to love in the in.k800, but in a smaller package. It is discreet, compact and unobtrusively beautiful. Save space without losing out on function.

Description



**Functions for keys 1 and 2 will depend on your system's low level configuration.*

Main Functions



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 four accessories* (3 pumps and a blower or 4 pumps and no blower). In this case only, buttons and icons are divided in two 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. 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 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

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.



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 three seconds without any change to the set temperature value, the keypad will resume the normal display of messages.



Settings

From the home page you can access the Settings. Use the arrow keys to move up and down in the list. To select an option, press the Light key. At any point you can press the Settings button to return to the list:

- 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
- WiFi (Version 7.00 and higher. Only available on in.touch with software 11.00 and higher.)
- Config *
- Restore *
- About

**Reserved for qualified electricians / installers*



Modifying Schedules

Use the arrow keys to scroll through the Water Care selections. To see and/or modify a Water Care category, use the light button to the right (key 1) 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 1 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.



Water Care

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

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

In Economy mode, the set point will be reduced by 20°F (default pack value) which means that the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.



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 check mark indicates the currently selected regulation mode. To change the setting, simply navigate the menu using the arrow key and press the Light Key to choose the desired regulation mode.

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.

Water Care Modes



Away:
In this mode the spa will always be in economy. The set point will be reduced by 20°F*.



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.*

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.



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.



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.k500 keypad will remind you of maintenance required on your spa, such as 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 & 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, not the year or date.



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 colour.

When you change the display orientation, the contextual options and arrow keys adjust to the chosen orientation. The Mode and Menu keys remain unchanged, as well as the accessory keys in the main spa menu.



If the RGB backlight option is enabled in the spa configuration, an option will appear to allow selection of the keypad rim light colour. (If the in.k500 is equipped with a selectable rim light colour module.)

You can lock the keypad by selecting one of three 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 five seconds.



Audio

The in.k500 can be used with the in.stream 2, in.tune or in.stream audio systems. The Audio section in the Settings menu of an in.stream gives you the option to disconnect or unpair your Bluetooth enabled device when using the in.stream.

With version 7.00 and higher, it is also possible to select Source to use a device connected by auxiliary cable or Bluetooth wireless connection.



in.stream 2 (version 11.00 and higher)

Press the Mode key to access your in.stream 2.

Play/Pause Audio
Press the Play/Pause button to start or pause the audio. This button is available for Bluetooth and USB only.

Adjusting the Volume
Press the Up or the Down key to increase or decrease the volume.

Turn Power On/Off
This option can be found under the Audio section in the Settings menu.

Changing Tracks
Use the Last Track and Next Track keys to change tracks or FM stations. This is not available with Aux source.

Disconnect
This option can be found under the Audio section in the Settings menu.

Fader, Balance and Subwoofer
These options can be found under the Audio section in the Settings menu.



in.tune

Press the Mode key to access your in.tune.

Play/Pause Audio
Press the Play/Pause key to start or pause the audio.

Adjusting the Volume
Press the Up or the Down key to increase or decrease the volume.

Changing Tracks
Use the Last Track and Next Track keys to change tracks for the CD or Aux input. When in Radio mode, the Last Track and Next Track keys will move through preset radio stations on the selected band. To change bands or preset stations, see your in.tune manual.

Turn Power On/Off (version 7.00 and higher)
Press and hold the Play/Pause key for three seconds to turn the in.tune on or off.



About

This section shows information about the in.k500 software number, and the revision numbers of the different components of your system.

The Audio option will only appear in the menu for keypads that are set up for an in.stream connection. The in.stream 2 is automatically detected at power-up.



in.stream

Press the Mode key to access your in.stream.

Play/Pause Audio
Press the Play/Pause button to start or pause the audio

Adjusting the Volume
Press the Up or the Down key to increase or decrease the volume.

Changing Tracks
Use the Last Track and Next Track keys to change tracks

Disconnect or Unpair Bluetooth
These options can be found under the Audio section in the Settings menu.

Turn Power On/Off (version 7.00 and higher)
Press and hold the Play/Pause key for three seconds to turn the in.stream on or off.



in.clear

in.clear-200 / Linked Version (version 13.00 and higher)

The in.k500 keypad can be used with the in.clear sanitization system. The in.clear section allows you to configure your maintenance settings and Boost level. For more information on maintenance and Boost settings, see the in.clear user manual.

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

Use the Up and Down keys to change the maintenance or Boost value and light key to confirm.

Note: If the maintenance value is modified by more than "2", a warning message will appear with an option to cancel or confirm the change.



Press on the Mode key to access your in.clear module.

This menu allows you to activate or deactivate your in.clear, to start or stop a Boost and to enter diagnostic mode.

Turning the in.clear On/Off

Press the power key to turn the in.clear on or off.

Control the Boost Level

Press on the Boost activation/deactivation key to start a Boost, and again to cancel.

To adjust the Boost level use the arrow keys.*

A message indicating that Boost mode is active is displayed at the bottom of the main screen for the duration of the Boost.

* See the in.clear user manual for more details about Boost levels.



Diagnostic Mode

Press on the Diagnostic key to start a BromiCharge concentration level test. To exit diagnostic mode press on the Diagnostic key again. The system will automatically exit after 15 minutes.

In diagnostic mode, the BromiCharge gauge indicates the approximate level of BromiCharge in the spa water. Do not add BromiCharge if the indicator is in the green zone.

When BromiCharge is added, the indicator will move slowly to the right. When water is added to the spa the indicator will move to the left. To obtain a good level of BromiCharge, start the pumps and add the specified amount of BromiCharge* and allow five minutes for the indicator to adjust before adding more.

For optimal performance, aim for the middle of the green zone.

* For more information on adjusting your BromiCharge level, see the in.clear user manual.



in.mix

in.mix Operation

This menu is only present if an in.mix system is detected.

Press on the Mode key to access your in.mix.

By default, the in.mix selects Zone 1 when you access the menu. After the first use, the menu will automatically return to the last zone selected.

Zone Selection

The zone selection keys allow you to select a zone to modify its colour.

- Press once to select the zone
- Press a second time to deactivate the zone

Changing Colours

Once a zone is selected, use the arrow keys to change the colours by moving up and down in the colour wheel.

Synchronizing Zones

The synchronization/desynchronization key allows you to match the colour of the selected zone to the other zones.

WiFi (in.touch Only)



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.

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.

- 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 the Settings menu.

Note: The WiFi logo colour 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)

STANDARD COMPONENTS

Silent Air Controls with Heated Intake

This is not a user serviceable part.

Lo-Pro silent air controls are designed to deliver immediate bubble action with minimal noise. To open, turn counter-clockwise and adjust according to personal massage preference. When the jet pump is on, the air control draws in the heat created by the motor and helps further reduce operation costs. The air control should remain closed when the spa is not in use in order to maximize heater efficiency.

In all Pacific Spas models (1, 2 or 3 pump system) each jet system has its own air controls, which allow changing the power of the jets (water pressure) by regulating the amount of air that is mixed with the water.



Knife Valve

This is not a user serviceable part.

All circulation pumps are equipped with knife valves. The valves prevent water from entering your spa equipment. They allow for servicing of the spa without draining. Leave the knife valve in the "OPEN" position at all times, except as required for servicing.



Hose Bibb / Drain Tap

This is not a user serviceable part.

All spas are equipped with a hose bibb (drain tap) to make the process of draining your spa easy. Just attach your ordinary garden hose to the tap and gravity will do the rest of the work.

Floor Drain / Safety Suction

This is not a user serviceable part.

Care must be taken not to cover the floor drain. Do not attempt to lift or remove this cover. Your Pacific Spa has been equipped with a suction fitting that draws water in the event your skim filter becomes restricted and allows adequate water flow to your equipment.



Top Load Skim Filter

This system comes with a floating skimmer and basket to catch hair or other debris that may enter the spa. The design of this skimmer allows the user to easily remove the cartridge filter for cleaning, which should be done on a regular basis. To remove the basket for access to the filter cartridge, turn the basket and lift (see Spa Maintenance). The anti-vortex skimmer is the skimmer closest to the keypad and has more holes to allow for a smoother flow of water. The vortex skimmer skims the surface of the spa.



Underwater Safety Light

This is a user serviceable part.

All Pacific Spas come equipped with an underwater safety light.



Equipment Pack

The equipment pack includes a built-in temperature probe and a water flow detection feature that eliminates the need for a pressure switch. In.therm controls multiple power levels on a single element, extending its lifetime by heating at high power only when needed. With no moving parts and no adjustments, in.therm is hassle free and defines new levels of reliability.



On/Off Valve

This is not a user serviceable part. Your Pacific Spa may be equipped with the Rainbow Falls or Serenity Fountain features. Turning on pump number one in low or high speed activates these water features. The water flow is controlled by turning the "On/Off" valve in the desired direction: Increase the pressure by turning the valve counter-clockwise and decrease the pressure by turning the valve clockwise.



Serenity Fountain

This is not a user serviceable part. See the "On/Off" instructions above. The Serenity Fountain provides the soothing sound of cascading water and adds an element of visual attraction to dramatically enhance your spa experience. See your dealer for Serenity Fountain cleaning instructions.



Rainbow Falls

This is not a user serviceable part. See the "On/Off" instructions above. Romantic lighting in the Serenity Fountain and Rainbow Falls exquisitely illuminate the top side of the spa.



Power Dome

This is not a user serviceable part. This option is available on select models only. The side storm jets are interchangeable with other storm jet types. The power dome can be adjusted using the 1" diverter with pump number two operating. The water flow can be changed at each jet by turning the outside face of the jet clockwise to reduce flow, / counter-clockwise to return to full flow.

With two speed systems, at least one jet must be open to ensure adequate flow to the heater. Enjoy the holistic powers of reflexology and chromotherapy (a therapy that uses coloured lights to improve both the physical and emotional levels of the body) in spa models that contain a massaging foot dome and magnificent lighting features.



Diverter Valves

2" Diverter Valve

Pacific Spas are designed to provide water flow to all jets at equal pressure when the diverter valves are in the "middle" position (12 o'clock). You may increase the pressure of the jets to selected seats by rotating the diverter to the left (9 o'clock) or to the right (3 o'clock) position.

1" Diverter Valve

Use the 1" diverter to adjust the pressure of the water features by turning the diverter counter-clockwise.



Spa Cover

This is a user serviceable part

A vinyl cleaner should be used regularly on your thermal cover. This will help guard against the sun's damaging ultraviolet rays and help to prevent mildew stains. We recommend a periodic treatment of non-silicone spray for outdoor covers to help repel rainwater.

We also recommend that every six months you remove the cover inserts to allow them to air out. Do not allow snow to build up on the cover. Never allow anyone to stand or sit on the cover. Avoid dragging the cover across rough surfaces.

The underside of your spa cover is a good reflection of the condition of your water. Poor water balance will quickly change the colour and texture of the cover's underside. It can also minimize the life expectancy of your spa cover. Please take steps to correct any water chemistry problems quickly to avoid serious damage to your cover. Even with perfect water balance, it is recommended that you wash the inside of your cover on a monthly basis to remove any chemical residue.

NOTE: When adding more than the normal daily amount of disinfectant (i.e. shock treatment) leave the spa cover off for a minimum of one hour. Failure to do so could damage the under side of the cover and void the warranty.

Generally, the greatest amount of damage and wear to the cover happens when removing or reinstalling the cover during use. During hot weather, the vinyl becomes very susceptible to cutting and tearing along the seams. The use of a cover removal device is recommended to reduce much of this damage.

NOTE: It is normal to expect some fading or discolouration to occur over time.

Inside the vinyl cover are two insulating cores. These cores are accessed by folding the cover in half and unzipping the side. Care must be taken in removing the cores so as not to damage the vinyl casing. Over time, it is expected that the cores will become saturated and heavy. In this case, replacement insert cores can be ordered from your Pacific Spas dealer.

NOTE: Use caution when installing cover lifters. To avoid damage to the panel, ensure the screw holes are pre-drilled and the supporting panels are adequately braced with a 2 x 4 wall stud before mounting the cover lifter. Avoid penetrating the plumbing lines with bracing screws, as this may create leaks in the lines (you can see any damage by removing the panel). Do not allow the cover lifter to fall under its own weight as this may damage the side panel. Carefully brace the cover lifter when opening or closing the cover. Any damage caused by a cover lifter attached to the spa is not covered by warranty.

OPTIONAL COMPONENTS

In.stream Bluetooth Stereo System

Everything you need to know about the in.stream 2 audio station Bluetooth function.

Bluetooth Range

The range of the Bluetooth module installed in the in.stream 2 is approximately 10 metres (32.8 feet), but the practical range depends on geographic, atmospheric and urban conditions. Any obstacle such as the insulation of the spa skirt, a wall or a body of water can reduce its range significantly. Therefore, it is important not to be too far from the station when trying to establish a Bluetooth connection.

In order to maximize the effective range of the Bluetooth, the in.stream 2 should be installed facing an open area and in a way that it will have a clear line of sight with the devices being used to stream music.



Connecting to the Audio Station

The Bluetooth connection is done in two steps. Before they can connect together, the devices being used need to be paired.

To pair or connect any device to the in.stream 2 audio station, the station must be open and must not be connected to any other device via Bluetooth, as it is impossible to interrupt one connection to establish a new one.

Pairing

In order to pair a device with the in.stream 2 station, you will need to access the Bluetooth settings of that device. From there, some devices will automatically search for other nearby Bluetooth devices while the "search" function will have to be activated on other devices.

Once the in.stream 2 has been detected by your device, select it to initiate the pairing process. When asked for a password, type in "5555" to complete the pairing. Once paired, the devices can connect together.

At this point, your device will be paired with the in.stream 2 and it will be possible to reconnect it to the station, automatically or manually, without having to pair it again, as long as the pairing between both devices isn't deleted.

The in.stream 2 can be paired with a total of eight different devices, but it can only maintain one connection at a time. If eight devices are paired with the station already, the next device to be paired will cause the station to delete the device that was used for the longest time from its pairing list so it can complete the new pairing request.

Connection

To manually connect an already paired device to the audio station, open the Bluetooth settings of the device you want to connect and select "in.stream 2" from its list of paired devices. However, be advised that the list of paired devices usually displays every piece of equipment paired with your device, even if they are not available for a connection. Thus, ensure you are near the in.stream 2 and that the station isn't already connected to another Bluetooth device, otherwise the connection attempt will fail and your device will return an error message.



Automatic Reconnection

When the audio station is no longer connected to a Bluetooth device, its automatic reconnection mode will be activated. In this mode, the station will automatically try to reconnect itself to one of the last three devices it had been connected to.

The automatic reconnection process can take up to 30 seconds (to reconnect a device from the moment this device is detected near the station). In order for the audio station to be able to reconnect to a device, the device's Bluetooth must be turned on and it must not already be connected to another Bluetooth device.

It is still possible to pair and manually connect a Bluetooth device to the in.stream 2 station even if the station is in its automatic reconnection mode.

Disconnecting

If a device connected to the in.stream 2 is moved out of range of the station, the connection will be interrupted and the station will switch to its automatic reconnection mode. If this device is brought back into range of the audio station, the station will automatically reconnect with it unless the station is now connected to a different Bluetooth device.

Some devices allow you to end a connection from their Bluetooth settings. From the station's point of view, this is the same as moving out of range. The connection is interrupted and the station starts trying to automatically reconnect with one of the last three connected devices, so you can expect the station to reconnect with that very same device in a matter of seconds.

It is also possible to end the connection between your device and the station by turning off the Bluetooth in your device's settings. By doing so, the in.stream 2 will not be able to automatically reconnect to your device and the station's Bluetooth connection will be available to pair or connect with a different Bluetooth device.

The audio stations equipped with a Gecko keypad have access to a disconnect function in the keypad's audio menu. Using this function terminates the active Bluetooth connection between a device and the audio station and also excludes this device from the automatic reconnection process until this device is manually reconnected to the audio station through the device's Bluetooth settings.

Unpairing Bluetooth Devices

It is possible to unpair a Bluetooth device from the audio station. This can be done by accessing the Bluetooth settings of the device in question and deleting the audio station from its list of paired devices. On many devices, unpairing is done by selecting the "forget this device" option from their Bluetooth settings.

Unlike other keypads, the in.k175 has an unpairing function from which all devices currently paired with the in.stream 2 are deleted from the list of devices paired with the audio station.

Once a Bluetooth device has been unpaired from the in.stream 2, the audio station will no longer be able to automatically reconnect to this device. To reconnect this device with the station, it will be necessary to start over with the pairing process by searching for the station and then typing in the password "5555".

in.stream 2 Uniqueness

Each in.stream 2 has an internal identification number that makes it unique. This uniqueness means that a Bluetooth device paired with a specific in.stream 2 will not be able to connect with another in.stream 2 without first being paired up with it.

If multiple in.stream 2 audio stations are nearby, all those which are turned on without being connected to a Bluetooth device will appear in the list of available devices when a search is activated.

While most Bluetooth devices will allow you to rename the equipment they are paired with, the name change is only reflected on the interface of the device used to rename said piece of equipment. This means that in the case of the audio station, nearby users will still see it listed as "in.stream 2" in their Bluetooth settings even if the station has been renamed on another Bluetooth device.

Common Problems and Solutions

My device is on "search" mode to detect nearby Bluetooth equipment, but does not detect the in.stream 2.

Ensure the audio station is turned on, that you are within range and that the station's Bluetooth is not already connected to a different device.

My Bluetooth device is not pairing with the in.stream 2.

In order to pair a device with the in.stream 2, you must be able to type in the custom password "5555". Some Bluetooth transmitters do not allow someone to type in a personalized password so those transmitters can not be paired with the audio station.

Despite the fact that my device is within range and that the in.stream 2 is turned on with readily available Bluetooth, an error message is displayed when I attempt to pair up or connect my device.

Delete any existing pairing between your device and the audio station, reset all Bluetooth functions on the device you are trying to pair or connect with the station and start over with the pairing process.

My device is connected, but the music is not playing.

In some instances, the in.stream 2 will not be able to launch the music application of the connected device. Ensure the music application is open and running on the front page of your mobile device.

My device is connected, but instead of playing from the audio station, the music is playing from my device.

An error may have occurred during your connection with the in.stream 2. Disconnect your device from the station and restart the connection.

The playback features are not responding properly or are activated in an untimely fashion.

It is possible that the remote control protocol of your audio source isn't fully compatible with the one used by the in.stream 2 or that its software is not up-to-date. Verify what functions are supported by the connected device and if updates are available for said device.

The automatic reconnection mode is not working.

It is possible that other devices have been connected to the audio station and that the current device is no longer one of the last three connected devices or that it has been disconnected using the station's keypad, thus deactivating the automatic reconnection with this device. In this case, you will need to manually reconnect the device to the in.stream 2 to reactivate the automatic reconnection with this specific device.

SPA MAINTENANCE

Your Pacific Spa is manufactured from the highest quality materials available. The spa care and maintenance program you develop will ultimately determine how long your spa and its individual components will last. Regular maintenance following the advice in this section will help you to protect your investment.

Spa Shell

Your Pacific Spa has a fibreglass reinforced, acrylic shell. Stains and dirt generally will not adhere to your spa's surface. A soft cloth or sponge should easily remove most dirt. Most household chemicals are harmful to your spa's shell. It is important that you do not use any abrasive cleaners or strong chemicals. Your local Pacific Spa dealer will be able to supply you with the proper cleaning solution for your spa. After cleaning, ensure all residue is removed prior to filling the spa. This will help prevent sudsing and improper chemical balance. Sodium bicarbonate (baking soda) or vinegar can also be used for minor surface cleaning. Always thoroughly rinse off any cleaning agent with fresh water.

Filtration System

As with any water filtering system, the filter cartridge may become clogged, resulting in reduced water flow. It is important to maintain a clean, unobstructed filter system.

Filter cartridge removal and installation:

1. Shut the spa down or set spa to standby.
2. Remove and set aside the filter cover.
3. Remove the filter basket by rotating the top outside ring counter-clockwise and lift.
4. Remove the filter cartridge.
5. Clean any debris from the skimmer basket.
6. Rinse and soak the cartridge.
7. To reinstall the filter cartridge, reverse the order of the steps in which it was removed.

Jets

Your jets should be removed and cleaned when you drain your spa to clean any sand or grit from the bearings and remove any blockage from the entrance port. Cleaning should be done in hot soapy water or dishwashing detergent. Ensure that the jet is moving freely before reinserting it. You can turn the jet on or off by rotating the jet face clockwise or counter-clockwise.

To remove the jet inserts:

1. Turn the jet to the off position until it stops.
2. Turn the jet past the stop point.
3. Pull the jet insert away from the spa.

When inserting a jet, match the opening on the jet housing wall to the U-shaped cut out on the end of the diffuser and push the jet in flush until resistance is felt, then continue to push the jet flush and forward until it snaps into place. Using this procedure will reduce the wear on your jets and increase their longevity.



Skirting

Cedarlite synthetic wood skirting consists of a rigid polymer which combines the durability of plastic with the beauty of wood. Cedarlite won't crack, peel, blister or delaminate even after prolonged exposure to the elements. Cleaning of Cedarlite consists of simply spraying the cabinet with a mild soap and water solution to remove any stains and residue. Screws at the base of the panel fasten each panel in place. The screws holes are slightly oversized to allow the panel to adjust to the weight of the water in a filled spa. If an adjustment is needed, the screws can be loosened and the panel will adjust to the weight of the water. Over tightening or failure to adjust the screws may cause the skirting to buckle. You can remove the threaded screw cap covers by turning them counter-clockwise.

NOTE: Use caution when installing cover lifters. To avoid damage to the panel, ensure the screw holes are pre-drilled and the supporting panels are adequately braced with a 2 x 4 wall stud before mounting the cover lifter. Avoid penetrating the plumbing lines with bracing screws, as this may create leaks in the lines (you can see any damage by removing the panel). Do not allow the cover lifter to fall under its own weight as this may damage the side panel. Carefully brace the cover lifter when opening or closing the cover. Any damage caused by a cover lifter attached to the spa is not covered by warranty.



Care of Spa Pillows

To extend the life of the pillows, they should be removed and cleaned whenever the spa shell is being cleaned. Body oils can be removed with a mild soap and water solution. Always rinse the spa pillows thoroughly to remove any soap residue. Remove the pillows from the spa for extended periods of non-use.

Further care for spa pillows:

- Do not sit on pillows.
- Do not pull on pillows.
- Proper water chemistry must be maintained.
- When you shock your spa, remove your cover, pillows and filter lid for a minimum of 30 minutes so excess gases may escape from the spa.



Pump Seal

Your jet pump is built using a "wet end" pump and a "dry end" motor with a seal in the middle. Depending on use and chemical balance, this seal will eventually need replacing. Check your motor monthly to ensure there is no water leaking to the motor area. If you detect any signs of leakage, contact your dealer immediately.



WINTERIZING

We recommend that you always have your spa filled with water and running at normal spa temperatures (27°C/80°F to 38°C/100°F). This will help reduce the risk of freezing your spa and its equipment.

WARNING: FREEZE DAMAGE WILL VOID THE WARRANTY COVERAGE.

1. Shut the power off to the system and ensure that it cannot be accidentally turned back on.
2. Open all filter covers.
3. Remove the filter baskets and filters.
4. Drain your spa completely.
5. Remove drain plugs from the front of the pumps.
6. Disconnect the unions from both sides of the pump.
7. Use a wet/dry vacuum to blow any remaining water out of the jets and equipment area.
8. Replace drain plugs from the front of the pumps.
9. Reconnect the unions from both sides of the pump.
10. Using a long funnel, pour non-toxic swimming pool or recreational vehicle water system antifreeze into the filter canister fittings, bleeder valve fittings and jet fittings of your system. Continue adding antifreeze until it spills out of the drain fittings or from the opening you are pouring it into. You must complete this task for every jet fitting in the system as well as the pumps and the bottom drain.
11. Cover your spa with a good spa cover and an all-weather tarp or spa bag to ensure that neither rain nor snow enter the spa.

EMERGENCY SITUATIONS: To eliminate freezing in the event of equipment failure, use a small heater with temperature control via extension cord and place it in the equipment area, keeping it away from plumbing lines. This will help for a short period of time until proper service can be arranged. You can also add hot water to the spa (only when full) while using the heater to help keep the smaller plumbing lines from freezing.

CHEMISTRY

Basic Chemical Safety

It is essential to read chemical container labels and follow the directions carefully. The following guidelines must be observed:

- Keep all chemicals out of reach of children.
- Chemicals may be corrosive, so handle with care. Store in a cool, dark place
- Do not inhale fumes or allow chemicals to come in contact with face or eyes. Wash hands after use.
- Ensure any spilled chemicals are carefully cleaned up. They may be corrosive and may cause damage or bodily harm.
- Never smoke near chemicals, some are highly flammable.
- If chemicals are swallowed or come in contact with your eyes or irritation occurs, follow the emergency instructions on the container.
- Accurately measure and use exact quantities specified – never more than what is recommended.
- Never add concentrated chemicals directly into the spa. Dilute with water in a large plastic pail.
- Always add chemicals to water and never water to chemicals.
- Do not mix chemicals with each other before adding to the spa. Add only one chemical at a time.
- Ensure the jet pump is on high speed while adding chemicals to the spa. Leave the jet pump running for at least 15 minutes to properly disperse the chemicals.
- When shocking the spa, leave the spa cover off for 20 minutes to allow oxidizer gas to vent.
- Discolouration or damage due to chemicals is not covered under the Limited Warranty.

Start Up Chemicals and General Supplies

Here is a basic list of chemicals and supplies needed before you use your spa. The availability of certain chemicals may vary from one dealer to another. See your local dealer for these items and directions on how to use them properly:

- Stain and scale inhibitor – neutralizes metals, clarifies water and helps prevent scaling.
- Alkalinity increaser – raises total alkalinity, buffers against erratic pH fluctuation.
- PH up – raises the pH of the spa water.
- PH down – lowers pH of the spa water.
- Calcium hardness increaser – protects against the effects of soft water, which can cause corrosion to some components in your spa.
- Spa shock – oxidizes organic compounds, clarifies water.
- Spa sanitizer – bromine or chlorine tablets are the main source of chemical sanitation.
- Filter cleaner – for soaking and cleaning dirty filter cartridges.

Chemical balance chart for recommended levels:

	EFFECTIVE RANGE
Total Alkalinity (TA)	125–150 ppm
pH Level	7.4–7.8
Calcium Hardness (CH)	80–100 ppm
Total Dissolved Solids (TDS)	<1500 ppm
Sanitizer (Chlorine/Bromine)	3–5 ppm

Additional Supplies

- Floating thermometer – although your spa has a digital read-out on the top-side control, this is a secondary device to ensure it is safe to enter the spa.
- Test kit or test strips – meant for a quick, easy check of the water’s chemical balance. This should not replace regular trips to your dealer for more accurate testing.
- Replacement filters – makes it convenient to change out clogged or dirty filter cartridges.

Chemical Maintenance

Daily Maintenance

- Operate the filtration cycle for at least four hours per day.
- Test pH and adjust to between 7.4 and 7.8.
- Test chlorine or bromine levels and adjust.
- Re-test again each day for one week if the spa has just been refilled.

Weekly Treatment

- Non-chlorine oxidizer (or shock) the water as per instructions.
- Clean any oil and grease from the water level line, if present.
- Remove and clean the filter (if necessary) by spraying with a garden hose.
- Depending on use, Filter Clean may be required.

Monthly Maintenance

Filtering (cleaning the filter) is done by pumping water through the fine polyester mesh of the filter. As water flows through the filter, suspended particles become trapped on its surface.

It is necessary to remove the filter and clean the cartridge surface, generally every four weeks, depending on usage and water quality. Cleaning is accomplished by washing all the entrapped dirt from the filter with a garden hose with a high-pressure nozzle.

Occasionally, the cartridge will need a more thorough cleaning to remove oils and grime from its surface. Turn the power to the spa off before removing the cartridge. Clean with a medium-pressure nozzle, then place the cartridge in a container, soaking the cartridge three to six hours or overnight in a filter-cleaning solution. The average life expectancy of the filter cartridge is approximately one to two years with proper care and water quality maintenance.

NOTE: See your dealer for information on keeping your spa water balanced and for regular water tests.

Every Two to Three Months' Maintenance

NOTE: Turn the power off before draining your spa.

To drain the spa, attach a garden hose to the drain tap/hose bibb located at the bottom corner on the exterior of your spa. Open the drain tap/hose bibb and let the water drain (this will take approximately two to four hours depending on the size of your spa) and clean the inside surface of your spa. Do not use any soap products or abrasive cleansers. Refill the spa with fresh water and refer to the start-up instructions. Obtain a water sample and have it tested. At this time your water must be rebalanced to protect your investment.

NOTE: Chlorine and bromine test strips are not interchangeable.

Spa Water Maintenance Troubleshooting Guide

PROBLEM	POSSIBLE CAUSE	SOLUTIONS
Cloudy water	<ul style="list-style-type: none"> · Inadequate filtration · Dirty filters · Excessive oils or organics · Improper sanitization · Suspended particles or organics · Unfiltered particles · Chemically saturated water · Overused or old water · Water is not balanced 	<ul style="list-style-type: none"> · Clean filters/change filters · Shock spa with sanitizer* · Test water with a Water Test Strip · Adjust pH and alkalinity · Run jet pumps and clean filters · Drain and refill the spa · Use Water Clarifier to combine particles
Water odour	<ul style="list-style-type: none"> · Excessive organics in water · Improper sanitization · Low pH 	<ul style="list-style-type: none"> · Shock spa with sanitizer* · Add sanitizer · Adjust pH to recommended range
Chemical (chlorine/bromine) odour	<ul style="list-style-type: none"> · Chloramines/bromamines level too high · Low pH 	<ul style="list-style-type: none"> · Shock spa with sanitizer* · Adjust pH
Scum line (ring) around spa or organic buildup	<ul style="list-style-type: none"> · Body oils and dirt · Excessive organics in water 	<ul style="list-style-type: none"> · Drain the spa, use a spa surface cleaner to remove the scum and refill the spa · Clean filters/change filters
Green water or algae growth	<ul style="list-style-type: none"> · High pH · Low sanitizer level 	<ul style="list-style-type: none"> · Shock spa with sanitizer* and adjust pH · Shock spa with sanitizer* and maintain sanitizer level
Eye irritation	<ul style="list-style-type: none"> · Low pH · Low sanitizer level 	<ul style="list-style-type: none"> · Adjust pH · Shock spa with sanitizer* and maintain sanitizer level
Skin irritation or rash	<ul style="list-style-type: none"> · Unsanitary water · Free chlorine level above 5 ppm 	<ul style="list-style-type: none"> · Shock spa with sanitizer* and maintain sanitizer level · Allow free chlorine/bromine level to drop below 5 ppm
Stains	<ul style="list-style-type: none"> · Total alkalinity and/or pH too low · High iron or copper in source water 	<ul style="list-style-type: none"> · Adjust total alkalinity and/or pH · Use a metal deposit inhibitor · Use a stain inhibitor
Scale	<ul style="list-style-type: none"> · High calcium content in water · Total alkalinity and pH too high 	<ul style="list-style-type: none"> · Drain the spa, clean the scale, refill the spa · Use a scale inhibitor and balance the water · Adjust total alkalinity and pH
Yellow water	<ul style="list-style-type: none"> · Low pH 	<ul style="list-style-type: none"> · Adjust pH with pH and Alkalinity Up
Foaming	<ul style="list-style-type: none"> · High concentration of body oils, lotions or soaps · High temperatures and excessive contaminants 	<ul style="list-style-type: none"> · Use Spa Defoamer and adjust pH and sanitizer levels as needed
Erratic pH test colour	<ul style="list-style-type: none"> · Sanitizer level is too high 	<ul style="list-style-type: none"> · Test pH again when sanitizer level is below 5 ppm.

*Shocking with sanitizer: Use only one tablespoon of granular chlorine or two tablespoons of granular bromine (or crush one tablet of chlorine or two tablets of bromine) to shock and bring the levels up sooner. Leave the cover off for 15 minutes.

Glossary of Chemical Terms

Bromamines: Compounds formed when bromine combines with nitrogen from body oils, urine, perspiration, etc. Unlike chloramines, bromamines have no pungent odour and are effective sanitizers.

Bromine: A halogen sanitizer (in the same chemical family as chlorine). Bromine is commonly used in stick, tablet or granular form.

Calcium Hardness: The amount of dissolved calcium in the spa water. This should be approximately 80–100 ppm. High levels of calcium can cause cloudy water and scaling. Low levels can cause harm to the spa equipment.

Chloramines: Compounds formed when chlorine combines with nitrogen from body oils, urine, perspiration, etc.

Chlorine: An efficient sanitizing chemical for spas.

Chlorine (or Bromine) Residual: The amount of chlorine or bromine remaining after chlorine or bromine demand has been satisfied. The residual is, therefore, the amount of sanitizer which is chemically available to kill bacteria, viruses and algae.

Corrosion: The gradual wearing away of metal spa parts, usually caused by chemical reaction.

Halogen: Any one of these five elements: fluorine, chlorine, bromine, iodine or astatine.

Oxidizer: The use of an oxidizing chemical is to prevent the buildup of contaminants, maximize sanitizer efficiency, minimize combined chlorine and improve water clarity.

Pathogen: An organism (i.e. bacteria) that causes disease.

pH: The measure of the spa water’s acidity and alkalinity. The recommended pH for the spa water is 7.4 to 7.8. Below 7.0, which is considered neutral, the spa water is too acidic and can damage the heating system. Above 7.8, the water is too alkaline and can result in cloudy water and scale formation on the shell and heater.

ppm: The abbreviation of “parts per million”, the standard measurement of chemical concentration in water. Identical to mg/l (milligrams per litre).

Reagent: A chemical material in liquid, powder or tablet form for use in chemical testing.

Sanitizer: Sanitizers are added and maintained at recommended residuals to protect bathers against pathogenic organisms which can cause disease and infection from unclean spa water.

Scale: Rough calcium-bearing deposits that can coat spa surfaces, heaters, plumbing lines and clog filters.

Shock Treatment: Shock treatment is a process of adding significant doses of a quick dissolving sanitizer (sodium dichlor is recommended) to oxidize non-filterable organic waste and to remove chloramines and bromamines.

Total Alkalinity: The amount of bicarbonates, carbonates and hydroxides present in spa water. Proper TA is important for pH control. If the TA is too high, the pH is difficult to adjust. If the TA is too low, the pH will be difficult to hold at the proper level. The desired range of TA in spa water is 100 to 150 ppm.

GENERAL OPERATION TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTIONS
Inoperative spa	<ul style="list-style-type: none"> Power failure GFCI tripped Spa lock activated 	<ul style="list-style-type: none"> Check power source Reset GFCI; call for service if it will not reset Turn off breaker for at least one minute. If tripping continues, call for service Deactivate spa lock
Not heating; jets and light operate (spa pack display shows OK and green LED is on)	<ul style="list-style-type: none"> Circulation pump thermal cut-off tripped Water temperature 2°F over set point Integrated pressure switch failure (replace the heater) Heater is not connected (check if rH/nF appears on the display) The wrench symbol appears on the panel display 	<ul style="list-style-type: none"> Check for clogged filters Check for air locks in plumbing Disconnect power to the spa, allow circulation pump to cool Circulation pump thermal cut-off will reset when pump has cooled and power is reapplied. Call for service if circulation pump thermal cut-off trips frequently Circulation pump is cut-off when water temperature reaches 2°F over set point. Call for service if the heater trips frequently A hardware problem occurred, call your dealer
Jets weak or surging	<ul style="list-style-type: none"> Spa water level too low Filters clogged Air controls are closed 	<ul style="list-style-type: none"> Add water Clean filters Open air controls
Light inoperative	<ul style="list-style-type: none"> Spa lock activated Light wiring or assembly is faulty 	<ul style="list-style-type: none"> Deactivate spa lock Replace light assembly
Pump not functioning	<ul style="list-style-type: none"> Pump overload condition Top side control switches failure if jet symbol does not come on 	<ul style="list-style-type: none"> Let cool for one hour. Pump (motor) overload will reset automatically. If problem persists, contact your Pacific Spa dealer Turn breaker off and contact your Pacific Spa dealer
Noisy pump	<ul style="list-style-type: none"> Low water level Defective pump 	<ul style="list-style-type: none"> Add water to normal level (minimum one inch above the highest jet) Turn breaker off and contact your Pacific Spa dealer
Pump runs, but low or no water/jet pressure	<ul style="list-style-type: none"> Low water level Air control valve closed or blocked Air line clogged or blocked Dirty filter cartridge Jet blocked Clogged suction or skimmer basket Closed gate valve (if present) 	<ul style="list-style-type: none"> Add water to normal level (minimum one inch above the highest jet) Open or clean air valve Clean filter cartridge Remove jet face and clean orifice Clean suction cover or skimmer basket Open gate valves
Diverter valves, on/off valves are difficult to turn	<ul style="list-style-type: none"> Sand or debris inside valves 	<ul style="list-style-type: none"> Clean and lubricate valves Clean filters/change filters



TechBook

SPA SPECIFICATIONS

MODEL	DIMENSIONS	ELECTRONIC CONTROLS	MOTOR HP	SEATING	JETS
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ICON SERIES

Oceana	90" x 90" x 39"	in.YE + in.k1000+	5+5	6	60
Calypso	90" x 90" x 39"	in.YE + in.k1000+	5+5	7	60
Atlantis	84" x 84" x 39"	in.YE + in.k1000+	5+4	6	54
Sparta	84" x 84" x 39"	in.YE + in.k1000+	5+4	6	54
Juno	83" x 64" x 36"	in.YE + in.k1000+	5	3	38
Phoenix	150" x 89" x 36"	in.YE + in.k1000+	3+3+3	10	95

NIRVANA SERIES

Solara	86" x 80" x 37"	in.YE + in.k500	3	6	21
Saturna	86" x 80" x 37"	in.YE + in.k500	3	6	21
Comet	81" x 69" x 32"	in.YE + in.k500	3	3	25

INFINITY SERIES

Pallas	89" x 89" x 35"	in.YE + in.k800	3+3	6	67
Niagra	89" x 89" x 35"	in.YE + in.k800	3+3	8	73
Jade	79" x 79" x 35"	in.YE + in.k500	3	6	42
Sapphire	77" x 50" x 29"	in.YE + in.k500	3	3	32

SWIM SPAS

Argo	158" x 89" x 59"	in.YE + in.k1000+	3		3
Vesta	210" x 89" x 59"	in.YE + in.k1000+	4+4+3+3		41
Luna	168" x 89" x 51"	in.YE + in.k1000+	4+3+3+2		57
Orion	225" x 89" x 51"	in.YE + in.k1000+	3+3+3+3		35+37
Neptune	294" x 89" x 59"	in.YE + in.k1000+	4+4+3+2		41+61

Specifications are subject to change without notice.

Y series

optimize your customers' spa experience



- universal fit
- immediate boost
- future expandability



WARNINGS



BEFORE INSTALLING OR CONNECTING THE UNIT, PLEASE READ THE FOLLOWING.

1. For units for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5 feet (1.52 metres) away, adjacent to, and within sight of the unit.
2. Any damaged cable must be immediately replaced by qualified personnel.
3. Turn power off before servicing or modifying any cable connections in this unit.
4. To prevent electric shock hazard and/or water damage to this control, all unused bushing conduits must be plugged with the attached nipple.
5. This controller must not be installed in proximity of highly flammable materials.
6. Low supply voltage or improper wiring may cause damage to this control system. Read and follow all wiring instructions when connecting to power supply.
7. This pack contains no user serviceable parts. Contact an authorized service centre for service.
8. All connections must be made by a qualified electrician in accordance with the National Electrical Code and any state, provincial or local electrical code in effect at the time of the installation.
9. Product must be disposed of separately in accordance with local waste disposal legislation.
10. 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 are supervised and/or have been given instructions concerning use of the appliance by a person responsible for their safety.
11. Children should be supervised to ensure that they do not play with the appliance.
12. Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
13. **CAUTION:** in order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
14. Parts containing live parts, except parts supplied with safety extra-low voltage not exceeding 12 v, must be inaccessible to a person in the spa.
15. Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the spa.
16. Parts are to be installed in the correct zone and equipotential bonding carried-out in accordance with the wiring rules.
17. Clearance and minimum distance between the various parts of the appliance and the surrounding structure are not specified as long as they are sufficient so that the ambient temperature around the controller does not exceed 60°C (140°F).

SAVE THESE INSTRUCTIONS

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FEATURES

The Y Series offers the kind of simplicity that makes for a genuine top-of-its-class product. It is the natural choice for anyone who wants an easy-to-understand multi-application solution.

You don't have to wonder about compatibility; instead, there's just the comforting certainty that when you invest in the Y Series, all spa configurations are supported. What's more, it also takes into account future compatibility, so you can have peace of mind knowing that you can enjoy your spa pack for years to come.

The Y Series systems boast a long list of technical features. Each of them contributes to bringing the most advanced solutions available to Y Series equipped spa owners:



in.seal
watertight protection

in.seal provides an extra level of protection against water infiltration. Connectors and power box are designed to be watertight (IPX5).



in.flo
dry-fire protection

in.flo is an all-electronic dry-fire protection that is built on the heat.wav heater. The in.flo eliminates the burden of adjustments, calibrations and failures associated with usual water flow sensors.



in.stik
automated software upload

The in.stik is a pen drive with an in.link connector, very similar to a USB memory stick. It connects to the spa pack and contains data to program or configure its system. The system executes the data upload automatically.



in.t.cip
water temperature algorithm

in.t.cip is an intelligent water temperature refresh algorithm that calculates optimal time to start pumps and get water temperature readings. in.t.cip continuously readjusts the heater start time (according to exterior temperature).



in.touch
you're always in touch with your relaxation

All Y Series packs support the in.touch WiFi interface, allowing you to use your favourite iOS device to communicate with your spa.



in.link
ingenious plugs and connectors

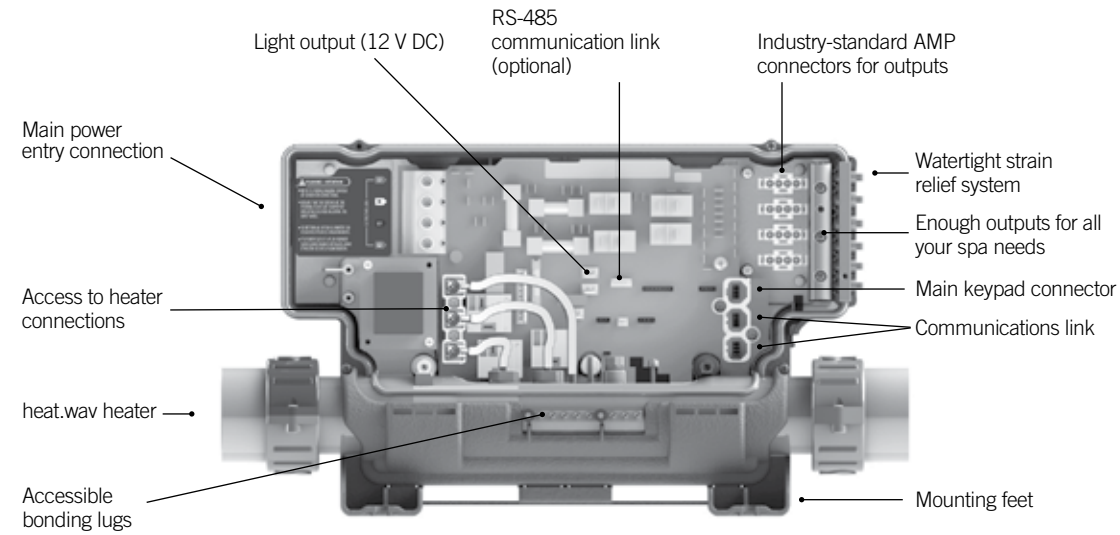
The Y Series is only compatible with the low-voltage family of in.link connectors, such as those used by keypads and similar low-voltage accessories.



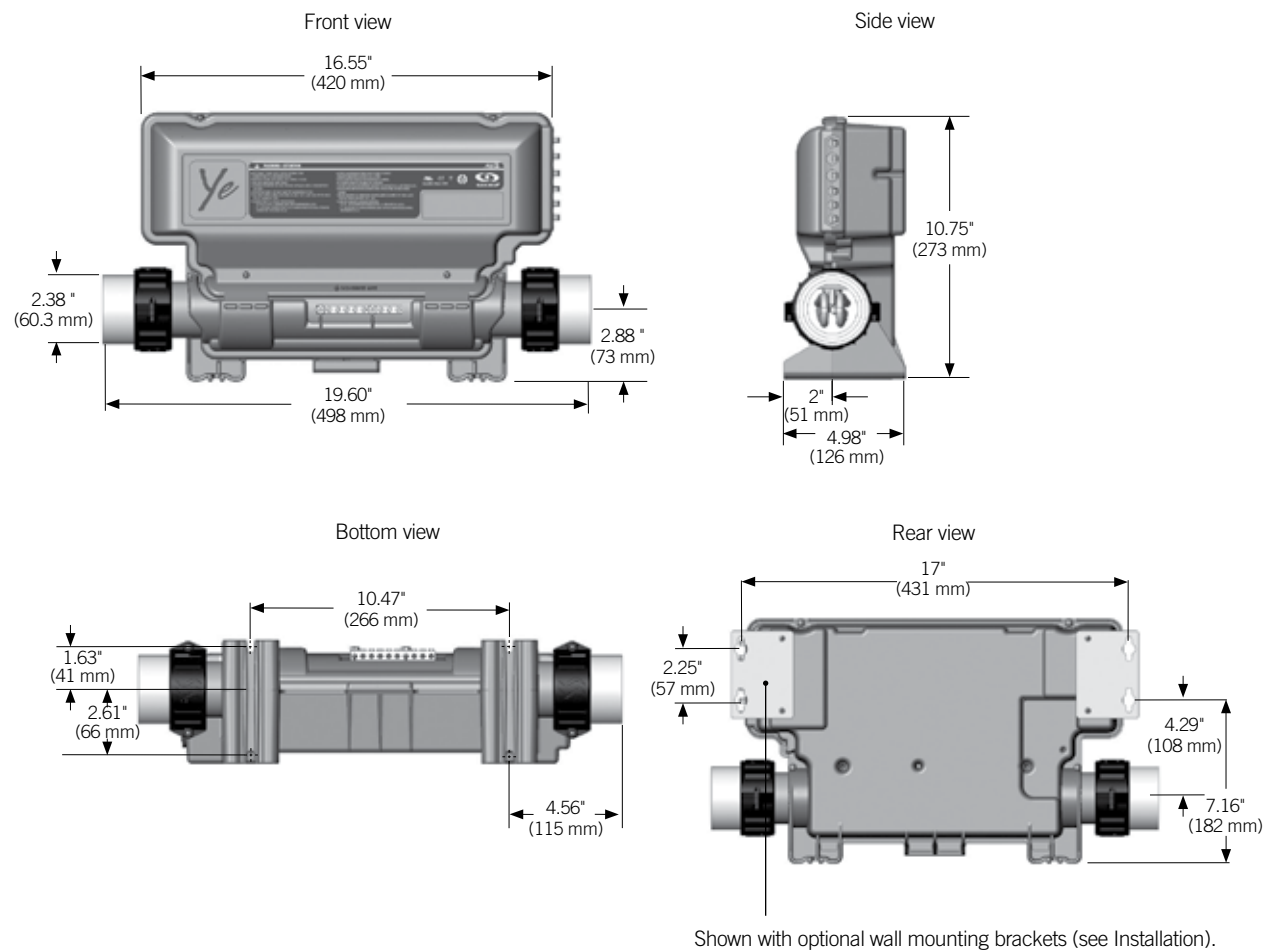
in.put
input terminal block

in.put was designed to ease wire insertion (up to # 4 AWG) and connections. Tighter input connection reduces heat generated for increased component lifetime.

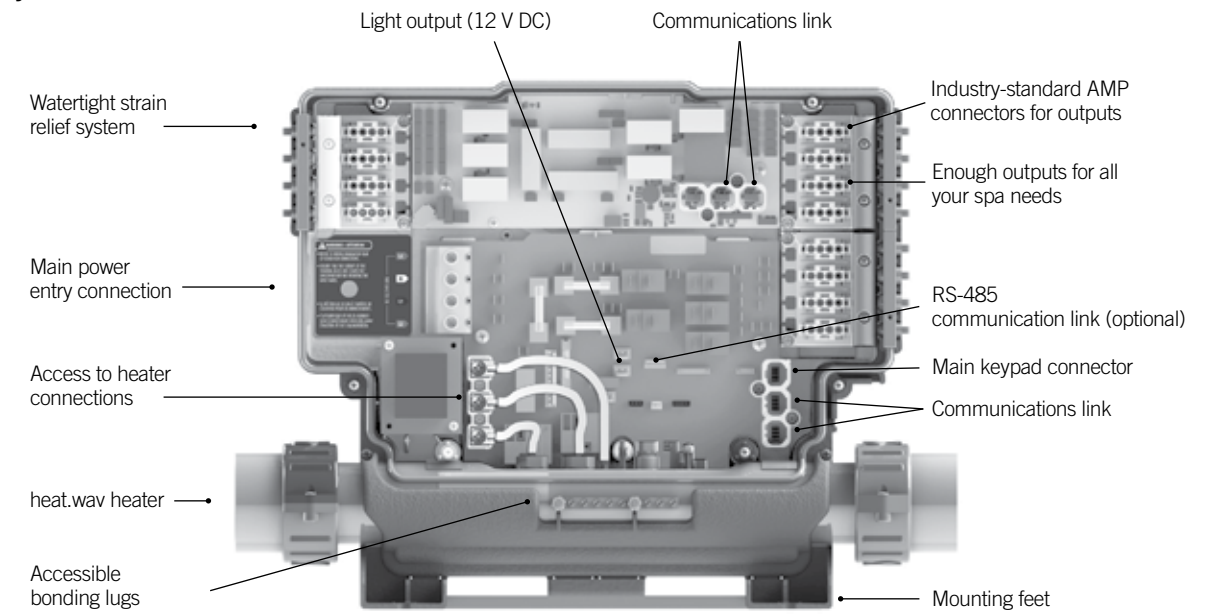
In.ye Overview



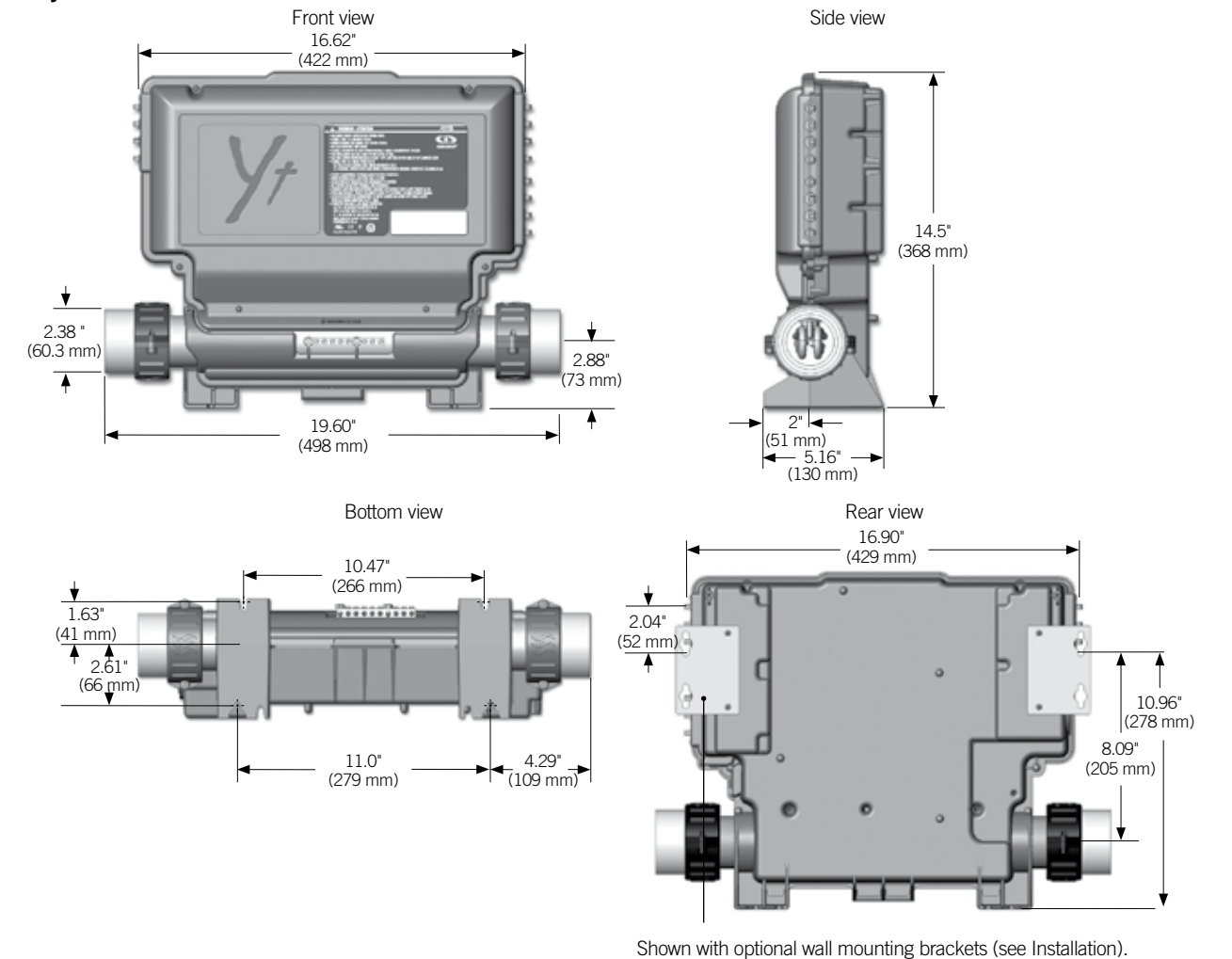
In.ye Dimensions



In.yt Overview



In.yt Dimensions



INSTALLATION

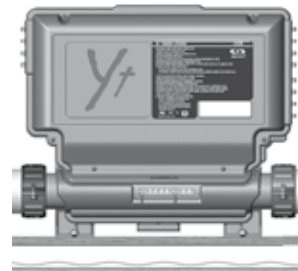
IMPORTANT! READ BEFORE STARTING:

Please note that countersunk screws should not be used as they can damage the power box support.

The heat.wav heating element must be installed in the return circuit of the main pump (pressure side).

WARNING!

Beware of the application of some products commonly used against corrosion (such as WD-40 family products) as they could damage the pack, due to a negative chemical reaction between some industrial oils and its plastic enclosure. Any other materials which may come in contact with the enclosure must be carefully evaluated under end use conditions for compatibility.



Note: The spa pack must be installed at least 4" (100 mm) above potential flood level. If floor is on ground level, pack should be raised at least 4" (100 mm).

4"

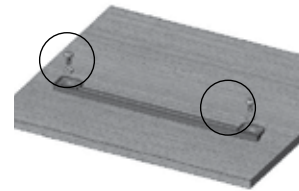
Floor Installation Procedure with Optional Guide Plate

The following materials are recommended:

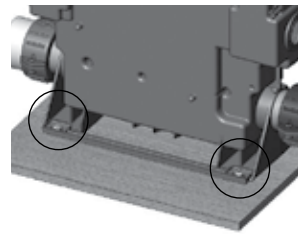
4 # 10 screws of appropriate length with round, truss or pan head.

4 washers .5" OD x .0625" thickness (12 mm OD x 1.5 mm)

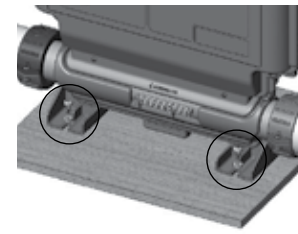
Guide plate



Select the most appropriate location on the floor for the spa pack and firmly attach the guide plate to the wooden base using 2 screws backed by 2 washers.



Slide the back side of the unit's feet into the guide plate. It should easily slide into place.



Now firmly attach the unit to the wooden base by using the remaining 2 screws backed by 2 washers to attach the front feet.

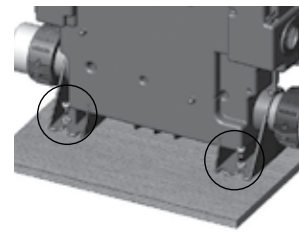
Part numbers:
9917-102148 (in.ye guide plate)
9917-100873 (in.yt guide plate)

Floor Installation Procedure without Guide Plate

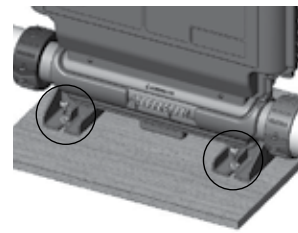
The following materials are recommended:

4 # 10 screws of appropriate length with round, truss or pan head.

4 washers .5 OD" x .0625" thickness (12 mm OD x 1.5 mm)

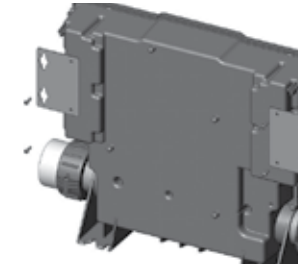


Select the most appropriate location on the floor for the spa pack and firmly attach the two rear feet to the wooden base using 2 screws backed by 2 washers.



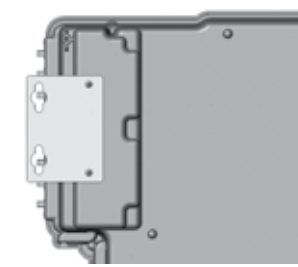
Now firmly attach the front feet of the pack to the wooden base using 2 more screws backed by 2 washers.

Wall Installation Procedure with Optional Wall Mounting Brackets



Install mounting brackets on both sides of the rear of the unit, using screws provided with the bracket.

Torque screws to 13 in. lb max (1.49 N.m).

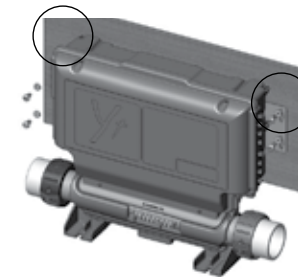


The following materials are recommended:

4 # 10 screws of appropriate length with round, truss or pan head.

4 washers .5 OD" x .0625" thickness (12 mm OD x 1.5 mm)

Use two standard 2" x 4" or 2" x 6" wall studs, spaced 17-inch from centre to centre to fix the spa pack.



Firmly attach, one at a time, upper mounting holes on each side of the spa pack with 2 screws backed by 2 washers.

Firmly attach lower mounting holes on each side of the pack with the 2 remaining screws and 2 washers.

Lower mounting holes are 2" (51 mm) below the upper holes.

Part number:
Wall mount bracket kit 100 pieces - 9920-101474 (with 200 screws to attach to pack)

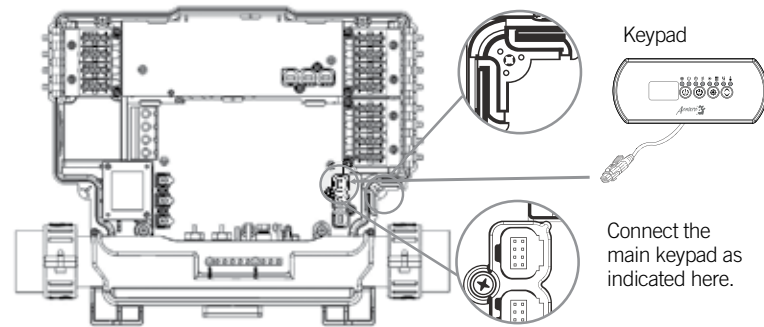
Keypad Installation

For detailed instructions and a drilling template, refer to the Techbook corresponding to your compatible keypad for the Y series control system at www.geckodocs.com.

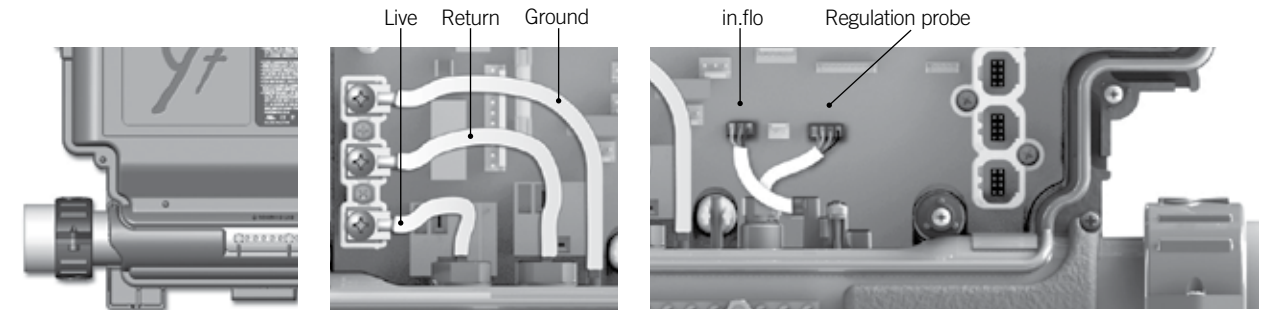
Connection of Main Keypad

NOTE: always shut down the power before connecting an accessory to the in.ye or the in.yt.

To connect the keypad, remove the cover, then insert the in.link connector into the appropriate keypad connector (as illustrated). Route the cable through one of the molded strain relief channels on the bottom right side of the spa pack (as illustrated). Fill the remaining space with the foam gaskets supplied. Replace the cover and all screws (torque to 8 in. lb max (0.9 N.m)).



Heat.wav Water Heater Connections



All Y Series systems come with a high performance heat.wav heater. With no pressure switch, it features in.flo integrated dry-fire protection.

Specification summary for heat.wav:

- Supports 120 V or 240 V
- Incoloy® heater element
- Protected by external breaker (not fused)*

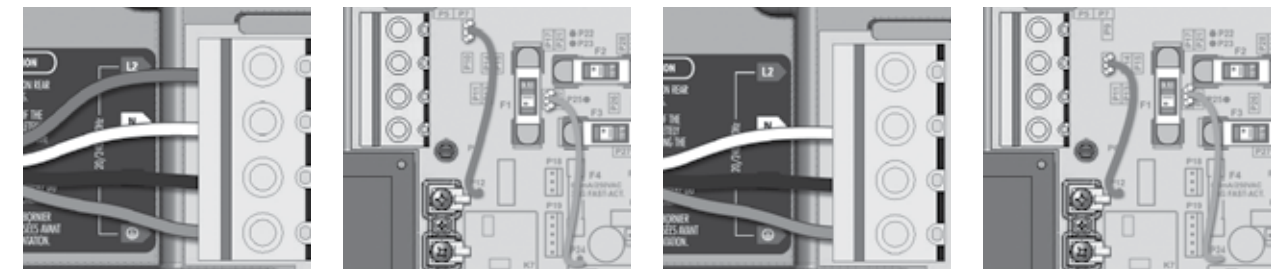
*Note : European models are 230-240 V only and are use protected.

The heat.wav heater is factory configured for 240 V / 4 kW, but it can be converted to a dedicated 120 V / 1 kW by simply adding a cable connection. (120 V conversion is available on North American in.ye-3 models only).

The heat.wav heater is also offered in 240 V / 5,5 kW or 240 V / 2 kW versions.

Part numbers:
9917-101959 (cable for conversion)
9920-101449 (5.5 kW heat.wav heater)

All heater connections are accessible when the cover is removed. Connections include the in.flo dry-fire protection, hi-limit/regulation probe connectors, power and ground cable connections.



**Connections for 240 V heaters
(North American installations only)**

BROWN wire must be correctly connected between P12 and P9.

Note: For early North American version installations the YELLOW wire must be between P25 and P20. the ORANGE wire must be between P24 and P16.

Connections for 120 V heaters (1 kW)

BROWN wire must be correctly connected between P12 and P10.

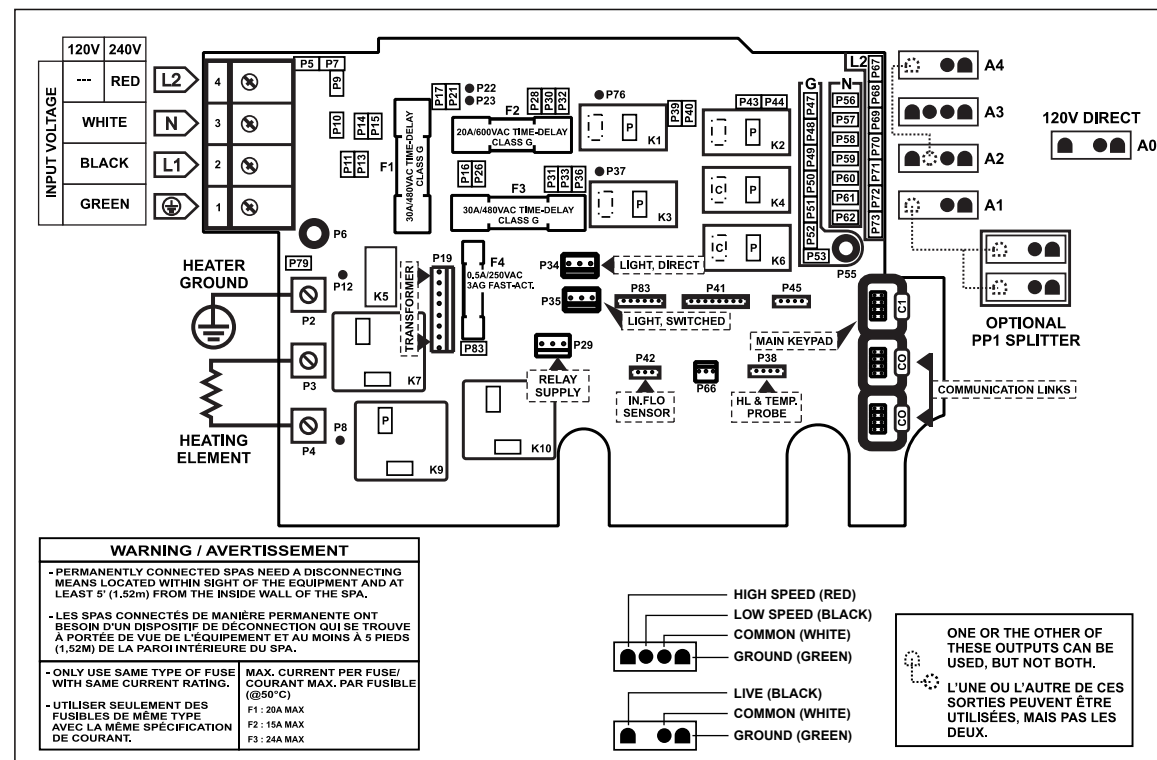
Note: To convert the model to a 120 V system, the WHITE (common) accessory wire must be moved. See wiring diagram for details.

Connecting High Voltage Accessories: All Models

Two options are available with Y Series spa packs for connecting high voltage accessories: 0.250" quick-connect terminals, or AMP connectors conform to industry standards.

Connecting High Voltage Accessories: North American Model in.ye

For the connection to the 0.250 inch terminals, the high voltage accessories must be provided with female quick connect terminals, straight and non-insulated for all types of connections, including the ground. Accessories of 120 V or 240 V may be connected to the corresponding terminals of the printed circuit of the in.ye. Refer to the following tables for correct connections. Note that all female terminals must be correctly and completely seated on the printed circuit terminals for proper current ratings.



Direct output 1 (A0 / Floating connector) (in.ye-5 only)

Voltage	120 V	240 V
Green / ground	P47	P47
Black / line	P32	P32
White / common	P56	P67

Pump 1 (A3)

Voltage	120 V	240 V
Green / ground	P49	P49
Black / low speed	K2-P	K2-P
Red / high speed	K4-P	K4-P
White / common	P58	P69

Circulation pump* (A1)

Voltage	120 V	240 V
Green / ground	P51	P51
Black / line	K1-P	K1-P
White / common	P60	P71

Pump 2 (A2) (in.ye-5 only)

Voltage	120 V	240 V
Green / ground	P50	P50
Black / low speed	K6-P	K6-P
Red / high speed	K3-P	K3-P
White / common	P59	P70

Pump 2 (A2) (in.ye-3 only)

Voltage	120 V	240 V
Green / ground	P50	P50
Black / low speed	K2-P	K2-P
White / common	P59	P70

Pump 3 (A4) (in.ye-5 only)

Voltage	120 V	240 V
Green / ground	P48	P48
Black / line	K6-P	K6-P
White / common	P57	P68

Light (12 V AC, 1A Max.)

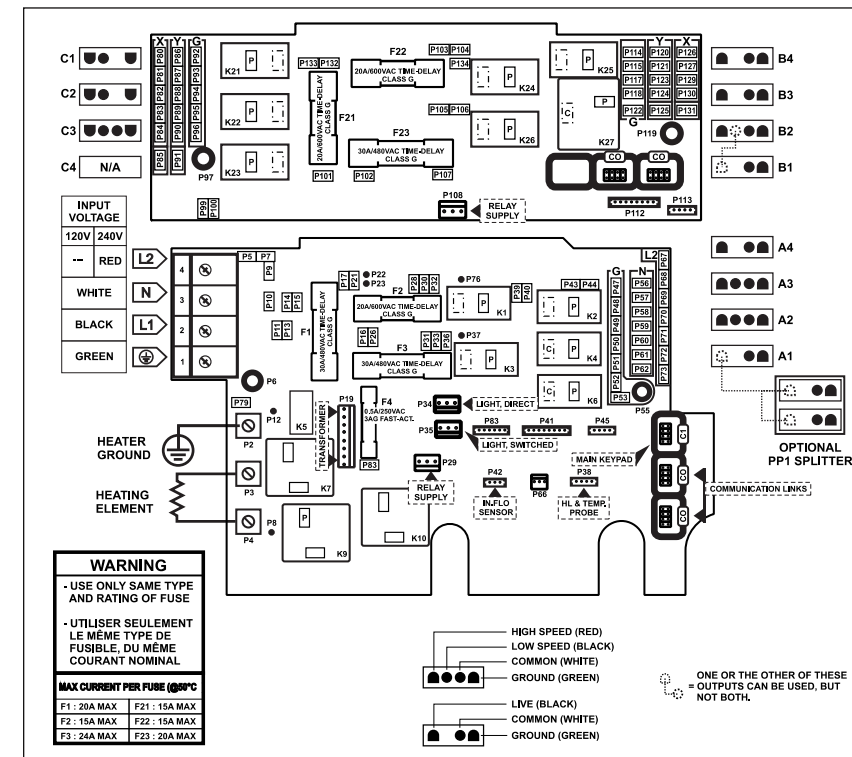
Always on	P34
Relay	P35

* Ozonator and circulation pump can be combined on the same output via the optional splitter PP1.

Note: This table shows typical connections. OEMs may have a different connection scheme.

Connecting High Voltage Accessories: North American Model in.yt

For the connection to the 0.250 inch terminals, the high voltage accessories must be provided with female quick connect terminals, straight and non-insulated for all types of connections, including the ground. Accessories of 120 V or 240 V may be connected to the corresponding terminals of the printed circuit of the in.yt. Refer to the following tables for correct connections. Note that all female terminals must be correctly and completely seated on the printed circuit terminals for proper current ratings.



Pump 1 (A3)

Voltage	120 V	240 V
Green / ground	P49	P49
Black / low speed	K2-P	K2-P
Red / high speed	K4-P	K4-P
White / common	P58	P69

Pump 2 (A2)

Voltage	120 V	240 V
Green / ground	P50	P50
Black / low speed	K6-P	K6-P
Red / high speed	K3-P	K3-P
White / common	P59	P70

Pump 3 (C3)

Voltage	120 V	240 V
Green / ground	P94	P94
Black / low speed	K22-P	K22-P
Red / high speed	K21-P	K21-P
White / common	P88	P82

Pump 4 (B2) (in.yt-12 only)

Voltage	120 V	240 V
Green / ground	P117	P117
Black / low speed	K26-P	K26-P
Red / high speed	K27-P	K27-P
White / common	P123	P129

Pump 5 (B3) (in.yt-12 only)

Voltage	120 V	240 V
Green / ground	P115	P115
Black / line	K24-P	K24-P
White / common	P121	P127

Blower (B4) (in.yt-12 only)

Voltage	120 V	240 V
Green / ground	P114	P114
Black / line	K25-P	K25-P
White / common	P120	P126

Circulation pump (C2) (in.yt-7)

Voltage	120 V	240 V
Green / ground	P93	P93
Black / line	K22-P	K22-P
White / common	P87	P81

Circulation pump (C2) (in.yt-12)

Voltage	120 V	240 V
Green / ground	P93	P93
Black / line	K23-P	K23-P
White / common	P87	P81

Ozonator (A1)

Voltage	120 V	240 V
Green / ground	P51	P51
Black / line	K1-P	K1-P
White / common	P60	P71

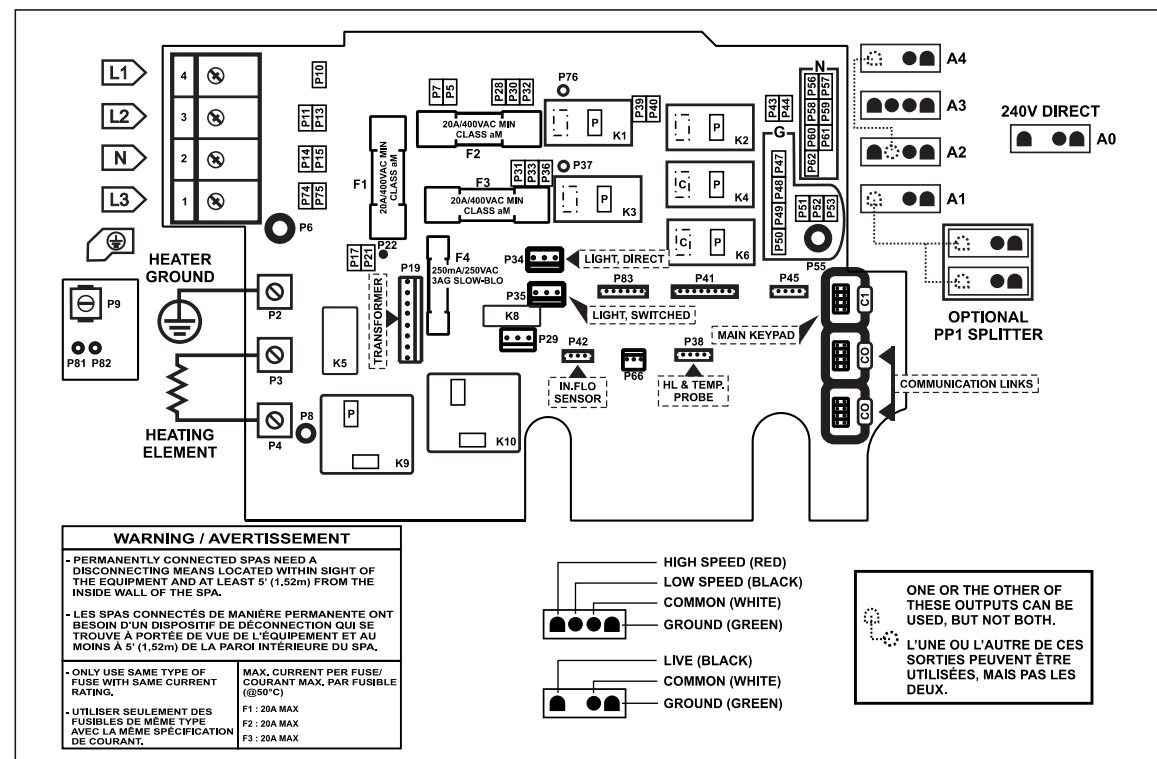
Light (12 V AC, 1A Max.)

Always on	P34
Relay	P35

Note: This table shows typical connections. OEMs may have a different connection scheme.

Connecting High Voltage Accessories: European Model in.ye

For the connection to the 0.250 inch terminals, the high voltage accessories must be provided with female quick connect terminals, straight and non-insulated for all types of connections, including the ground. Only 230 V accessories may be connected to the corresponding terminals of the printed circuit of the in.ye. Refer to the following tables for correct connections. Note that all female terminals must be correctly and completely seated on the printed circuit terminals for proper current ratings.



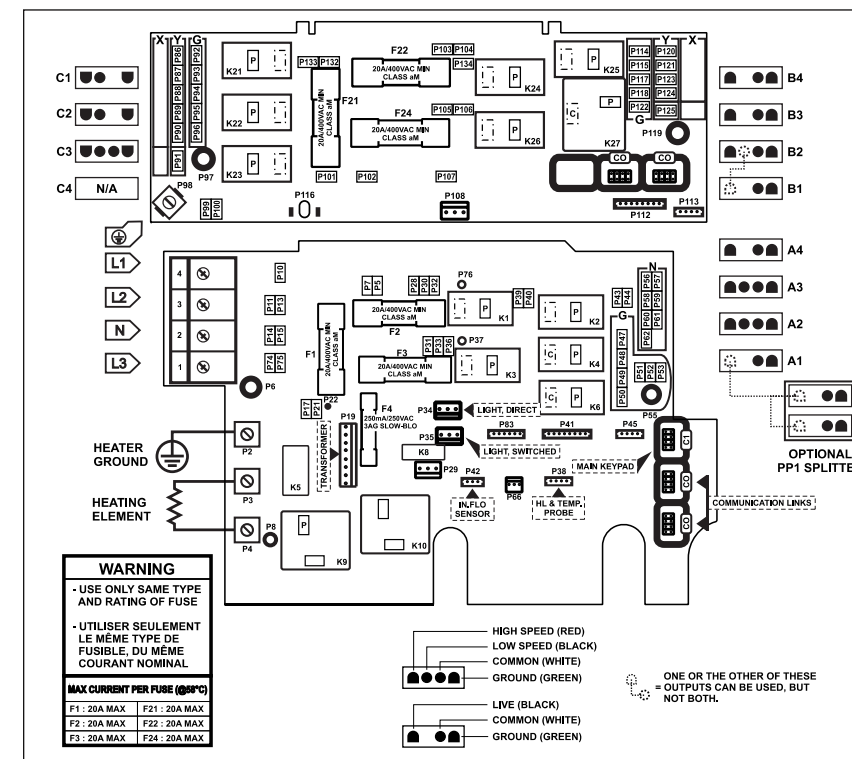
Direct output 1 (A0 / Floating connector) (in.ye-5-CE only)	Pump 1 (A3)	Pump 1 (A2) (in.ye-5-CE)	Pump 3 (A4) (in.ye-5-CE only)
Voltage	Voltage	Voltage	Voltage
Green / ground 230 V P47	Green / ground 230 V P49	Green / ground 230 V P50	Green / ground 230 V P48
Black / line P32	Black / low speed K2-P	Black / low speed K6-P	Black / line K6-P
White / common P56	Red / high speed K1-P	Red / high speed K3-P	White / common P57
	White / common P58	White / common P59	

Pump 2 (A2) (in.ye-3-CE)	Circulation pump* (A1)	Light (12 V AC, 1A Max.)
Voltage	Voltage	
Green / ground 230 V P50	Green / ground 230 V P51	Always on P34
Black / low speed K2-P	Black / line K4-P	Relay P35
White / common P59	White / common P60	

* Ozonator and circulation pump can be combined on the same output via the optional splitter PP1.

Connecting High Voltage Accessories: European Model in.yt

For the connection to the 0.250 inch terminals, the high voltage accessories must be provided with female quick connect terminals, straight and non-insulated for all types of connections, including the ground. Only 230 V accessories may be connected to the corresponding terminals of the printed circuit of the in.yt. Refer to the following tables for correct connections. Note that all female terminals must be correctly and completely seated on the printed circuit terminals for proper current ratings.



Pump 1 (A3)	Pump 2 (A2)	Pump 3 (C3)	Pump 4 (B2) (in.yt-ce only)
Voltage	Voltage	Voltage	Voltage
Green / ground 230 V P49	Green / ground 230 V P50	Green / ground 230 V P94	Green / ground 230 V P117
Black / low speed K2-P	Black / low speed K6-P	Black / low speed K22-P	Black / low speed K26-P
Red / high speed K1-P	Red / high speed K3-P	Red / high speed K21-P	Red / high speed K27-P
White / common P58	White / common P59	White / common P88	White / common P123

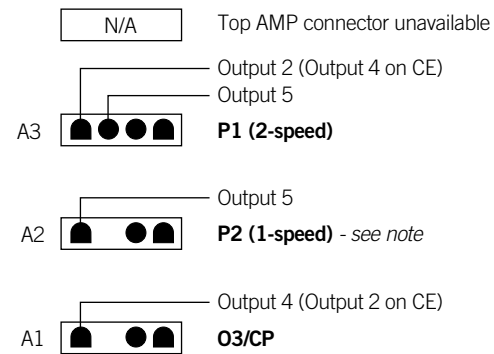
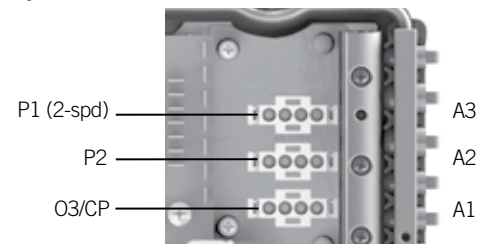
Pump 5 (B3) (in.yt-12-ce only)	Blower (B4) (in.yt-12-ce only)	Circulation pump (C2) (in.yt-12-CE)	Ozonator (A1)
Voltage	Voltage	Voltage	Voltage
Green / ground 230 V P115	Green / ground 230 V P114	Green / ground 230 V P93	Green / ground 230 V P51
Black / line K24-P	Black / line K25-P	Black / line K23-P	Black / line K4-P
White / common P121	White / common P120	White / common P87	White / common P60

Direct output 1 (A4)	Direct output 2 (C1)	Auxiliary (B1) (in.yt-12-ce only)
Voltage	Voltage	Voltage
Green / ground 230 V P48	Green / ground 230 V P92	Green / ground 230 V P118
Black / line P32	Black / line P132	Black / line K26-P
White / common P57	White / common P86	White / common P124

Circulation pump (C2) (in.yt-7-CE)	Light (12 V AC, 1A Max.)
Voltage	Voltage
Green / ground 230 V P93	Always on P34
Black / line K22-P	Relay P35
White / common P87	

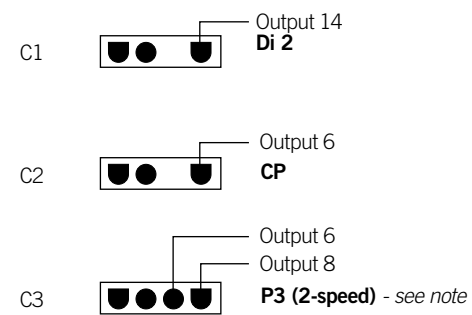
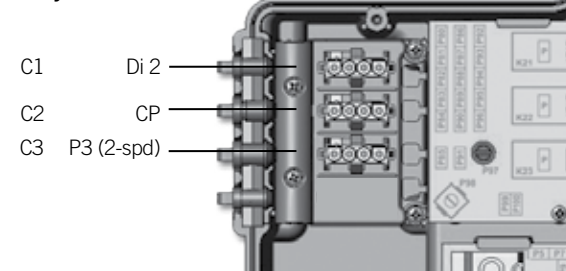
Amp Output Connectors and Typical Accessories

in.ye-3

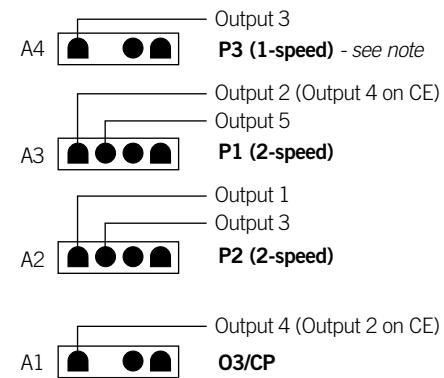
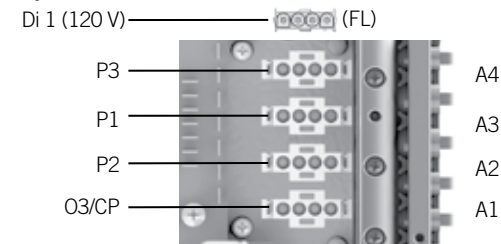


Note: If P2 is used, P1L cannot be used.

in.yt-7

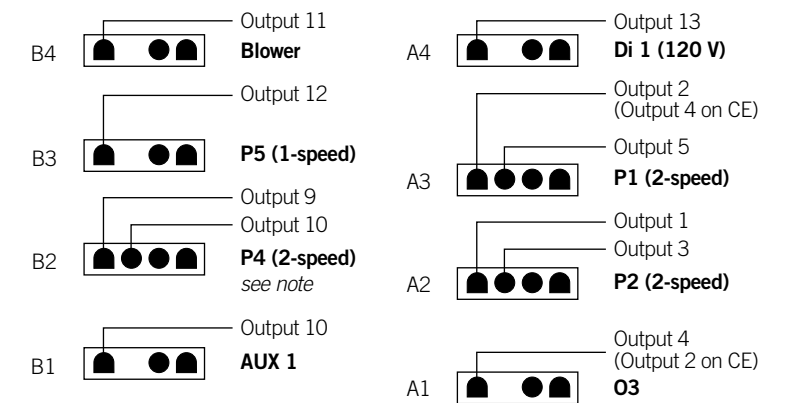
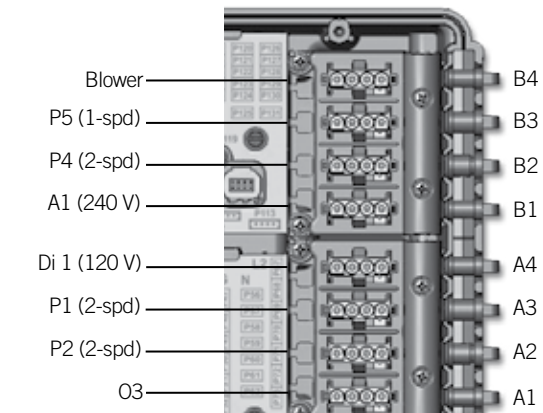
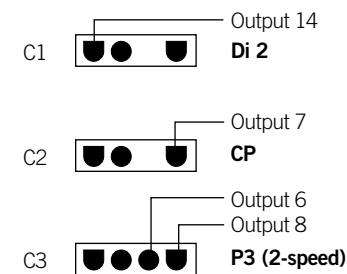
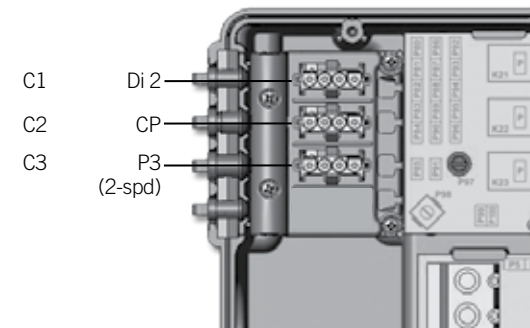


in.ye-5



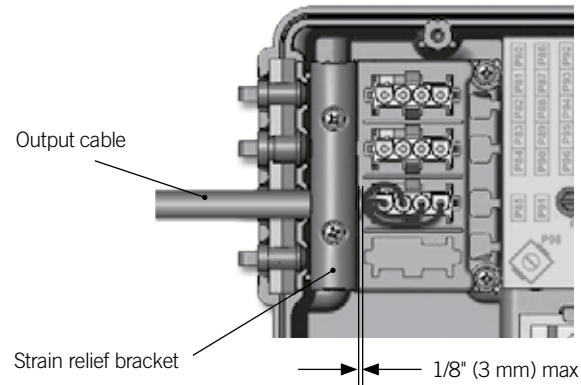
Note: If P3 is used, P2L cannot be used.

in.yt-12



Note: If P4 2 speed is used, AUX 1 can not be used.

Completing the Installation

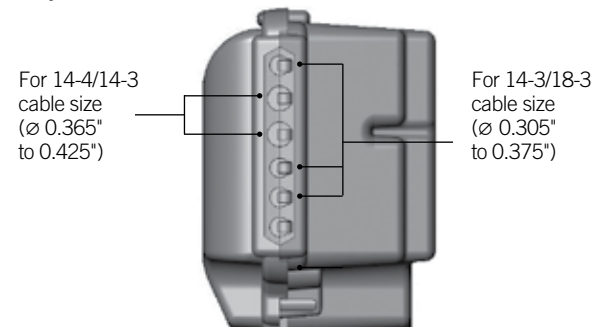


Once all cables of high voltage accessories are routed through the openings provided for this purpose on each sides of the enclosure of the control system, you can replace the strain relief brackets.

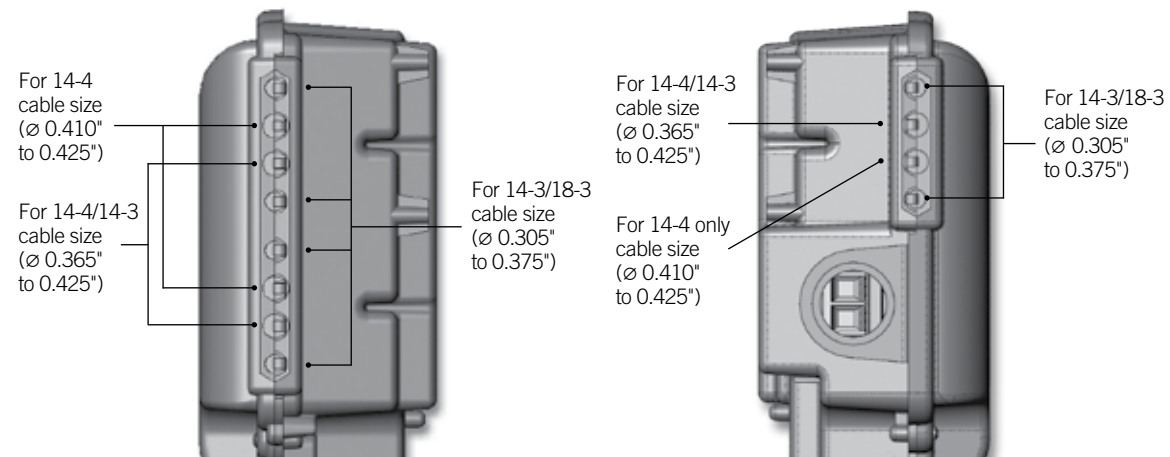
Replace the cover. Do not over tighten cover screws (torque to 8 in. lb max (0.9 N.m))

The cable jacket must not exceed the strain relief bracket more than 1/8" (3 mm).

in.ye



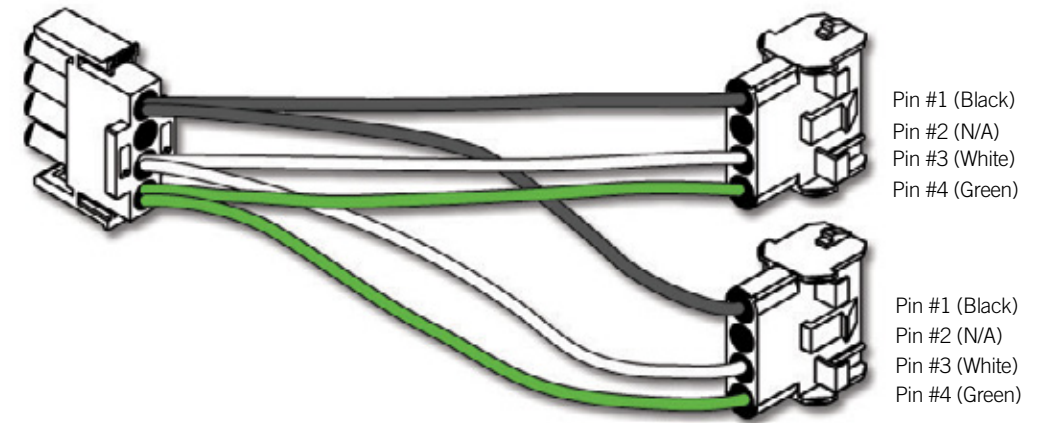
in.yt



WIRING

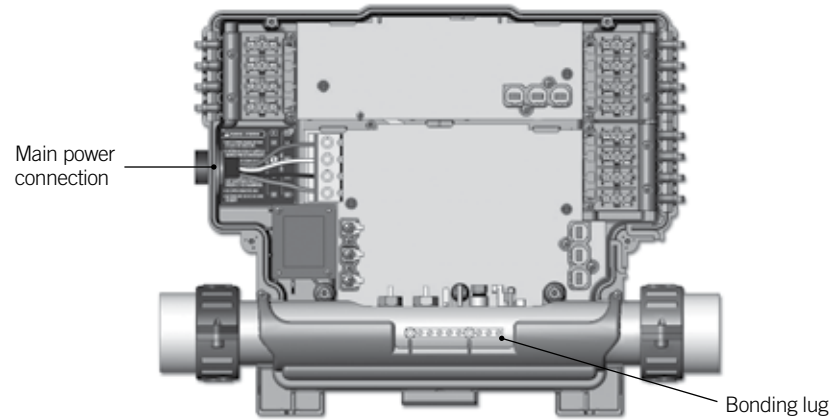
Amp Connector and Housing

A special PP-1 splitter can be ordered (Part #: 9920-401369) and used to split an output into 2 parallel outputs (i.e. a single output could be used to drive two accessories like an ozonator and a UV generator, or a CP). Both accessories driven must be of the same operating voltage (120 V or 240 V).



Electrical Wiring: All Models

Warning
 Disconnect power before starting electrical work. Wiring must be completed by a qualified electrician and must be done in accordance with the local electrical code.



To complete the electrical connections of our in.ye or in.yt control system, you will need a Phillips screwdriver and a flat-head screwdriver.

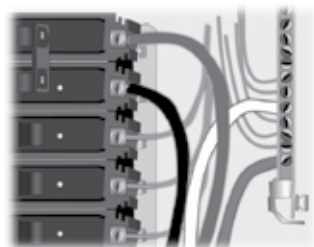
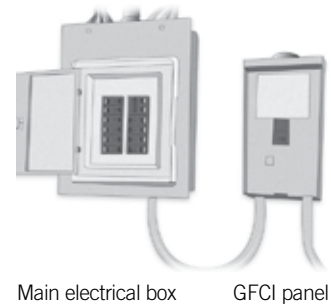
Remove the screws from the system control lid and remove it.

Remove 5 1/2" (142 mm) of cable insulation.

Strip away 1" (25 mm) of insulation from each wire.

Pull the cable through the cutout of the box and secure it with a NPT strain relief* (hole diameter 1.335" [34.42 mm]). Ensure that the NPT strain relief clamps around the outer sheath of the cable.

* For CE use an IEC certified plastic bushing that will maintain the IPX5 rating.



Warning
 For units for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The emergency switch shall be readily accessible to the occupants and shall be installed at least 5 feet (1.52 m) away, adjacent to, and within sight of the unit.

This product must always be connected to a circuit protected by a ground fault interrupter.

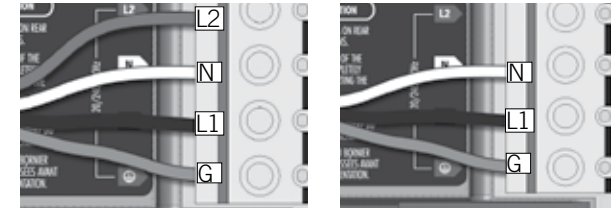
Proper wiring of the electrical service box, GFCI and Y Series terminal block is essential!

Check your electrical code for local regulations. Only copper wire should be used, never aluminum.

Disposal of the product
 The appliance (or the product) must be disposed of separately in accordance with the local waste disposal legislation in force.

Electrical Wiring: North American Model in.ye and in.yt

Refer to wiring diagram in the enclosure box lid for more information.



240 V (4 wires)

120 V (*3 wires)

If connected to a 3-wire system, the heat.wav and accessories will not operate at 240 V.

Note: To convert the model to a 120 V system, the WHITE (common) accessory wire must be moved. See wiring diagram for details.

Refer to the section *Connections for 120 V heaters.*

Insert each wire into the appropriate socket of the main entry terminal block according to the colour code indicated on the sticker. Use a flat-head screwdriver to tighten the screws on the terminal.

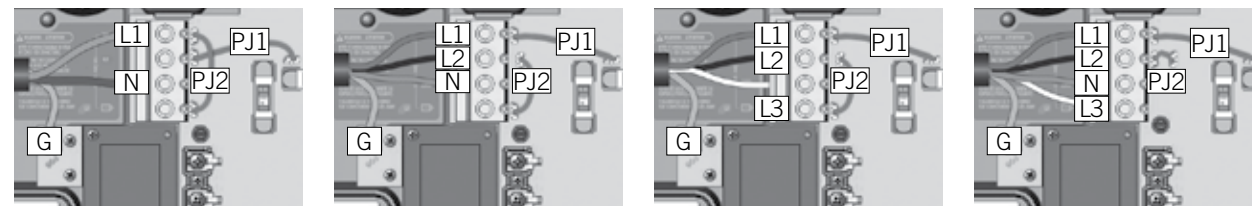
After ensuring wires are securely connected, push them back into the box and replace the cover. Do not over tighten cover screws (torque to 8 in. lb max {0.9 N.m}).

Connect the bonding conductor to the bonding lug on the front of the spa pack (a grounded electrode conductor should be used to connect the equipment grounding conductors).

Electrical Wiring: European Model in.ye

Refer to wiring diagram in the enclosure box lid for more information.

Warning
 in.ye.ce models must always be connected to a circuit protected by a Residual-Current Device (RCD) having a rated operating residual-current not exceeding 30 mA.
 Correct wiring of the electrical service box, RCD, and pack terminal block is essential!
 Check your electrical code for local regulations. Only copper wire should be used, never aluminum.



- | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 1-phase | 2-phase | 3-phase Delta (no neutral) | 3-phase with single neutral |
| Connect PJ1 between P7 and P13. | Connect PJ1 between P7 and P10. | Connect PJ1 between P7 and P10. | Connect PJ1 between P7 and P10. |
| Connect PJ2 between P10 and P74. | Connect PJ2 between P13 and P74. | Connect PJ2 between P13 and P74. | Connect PJ2 between P11 and P13. |

Insert each wire into the appropriate socket of the main entry terminal block according to the colour code indicated on the sticker. Use a flat-head screwdriver to tighten the screws on the terminal.

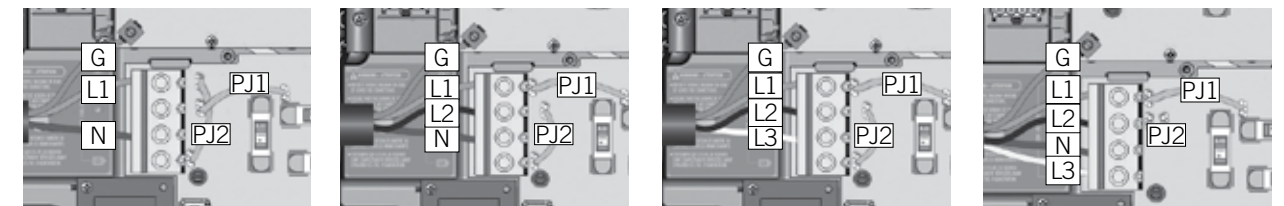
After ensuring wires are securely connected, push them back into the box and replace the cover. Do not over tighten cover screws (torque to 8 in. lb max {0.9 N.m}).

Connect the bonding conductor to the bonding lug on the front of the spa pack (a grounded electrode conductor should be used to connect the equipment grounding conductors).

Electrical Wiring: European Model in.yt

Refer to wiring diagram in the enclosure box lid for more information.

Warning
 in.yt.ce models must always be connected to a circuit protected by a Residual-Current Device (RCD) having a rated operating residual-current not exceeding 30 mA. Correct wiring of the electrical service box, RCD, and pack terminal block is essential! Check your electrical code for local regulations. Only copper wire should be used, never aluminum.



- | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 1-phase | 2-phase | 3-phase Delta (no neutral) | 3-phase with single neutral |
| Connect PJ1 between P7 and P13. | Connect PJ1 between P7 and P10. | Connect PJ1 between P7 and P10. | Connect PJ1 between P7 and P10. |
| Connect PJ2 between P10 and P74. | Connect PJ2 between P13 and P74. | Connect PJ2 between P13 and P74. | Connect PJ2 between P11 and P13. |

Insert each wire into the appropriate socket of the main entry terminal block according to the colour code indicated on the sticker. Use a flat-head screwdriver to tighten the screws on the terminal.

After ensuring wires are securely connected, push them back into the box and replace the cover. Do not over tighten cover screws (torque to 8 in. lb max {0.9 N.m}).

Connect the bonding conductor to the bonding lug on the front of the spa pack (a grounded electrode conductor should be used to connect the equipment grounding conductors).

CONTROLLER POWER UP

Start Up of Your Control System

To perform the control system start up, refer to page 7: Start Up Guide Y Series.

COMPATIBLE KEYPADS

List of Compatible Keypads for the Y Series Control System

For more information on the compatible keypads for your control system refer to the corresponding Techbook at www.geckodocs.com



K-19 main keypad
LED display, 4 keys



K-35 main keypad
LED display, 6 keys



in.k200 main keypad
LED display, 4 keys



in.k600 static main keypad
LCD display, 11 keys



K-4 main keypad
LCD display, 8 keys



K-8 main keypad
LCD display, 8 keys



in.k450 main keypad
LCD display, 7 keys



in.k300 main keypad
LCD display, 4 keys



in.k500 main keypad
Colour LCD display, 7 keys



in.k800 main keypad
Colour LCD display, 10 keys



in.k1000 main keypad
Colour LCD capacitive
touchscreen display



in.k1000+ main keypad
Colour LCD capacitive
touchscreen display

TROUBLESHOOTING

Troubleshooting Information for Your Control System

For troubleshooting your control system, refer to the Y Series Troubleshooting Guide on page 78.

SPECIFICATIONS

In.ye and in.yt North American Electrical Specifications

Input rating: 120/240 V nominal (+5/-10 %)
60 Hz, (2 lines required with neutral) 48 A max.
or (in.ye-3 only): 120 V nominal only (+5/-10 %)
60 Hz, (single line with neutral) 16 A max.

Heat.wav rating:
Voltage: 120 V or 240 V, 60 Hz
Wattage: 5,5 kW at 240 V, 4 kW at 240 V or 1 kW at 120 V
Flow rate Minimum of 18 GPM (68 LPM) is required

OUTPUT	VOLTAGE	MAXIMUM CURRENT	TYPICAL DEVICE	ye-3*1	ye-5	yt-7	yt-8	yt-12
Output 1	120 or 240 V	15 FLA/60 LRA (inrush)	Pump 2 high speed		•	•	•	•
Output 2	120 or 240 V	15 FLA/60 LRA (inrush)	Pump 1 high speed	•	•	•	•	•
Output 3	120 or 240 V	15 FLA/60 LRA (inrush)	Pump 2 low speed		•	•	•	•
Output 4	120 or 240 V	15 FLA/60 LRA (inrush)	Ozonator	•	•	•	•	•
Output 5	120 or 240 V	15 FLA/60 LRA (inrush)	Pump 1 low speed	•	•	•	•	•
Output 6	120 or 240 V	15 FLA/60 LRA (inrush)	Pump 3 low speed			•	•*2	•
Output 7	120 or 240 V	15 FLA/60 LRA (inrush)	Circulation pump				•	•
Output 8	120 or 240 V	15 FLA/60 LRA (inrush)	Pump 3 high speed			•		•
Output 9	120 or 240 V	20 FLA/80 LRA (inrush)	Pump 4 high speed				•*3	•
Output 10	120 or 240 V	15 FLA/60 LRA (inrush)	Pump 4 low speed				•*4	•
Output 11	120 or 240 V	15 FLA/60 LRA (inrush)	Blower					•
Output 12	120 or 240 V	15 FLA/60 LRA (inrush)	Pump 5					•
Direct out 1	120 or 240 V	5 A	Audio/video		•	•	•	•
Direct out 2	120 or 240 V	5 A	Audio/video			•	•	•

IMPORTANT:

The maximum current for output 2 on fuse F1 may not exceed 20 A.
The maximum current for outputs 4, 5 and Direct 1 on fuse F2 may not exceed 15 A.
The maximum current for outputs 1 and 3 on fuse F3 may not exceed 20 A.
The maximum current for outputs 6 to 8 and Direct 2 on fuse F21 may not exceed 15 A.
The maximum current for outputs 11 and 12 on fuse F22 may not exceed 15 A.
The maximum current for outputs 9 and 10 on fuse F23 may not exceed 20 A.
The total maximum current for the fuses F22 and F23 may not exceed 30 A.

- * 1. This model can be converted to a dedicated 120 V model.
- * 2. The typical accessory for the output 6 on a in.yt-8 is a pump 3 high speed.
- * 3. It's possible to configure the output 9 as a secondary heater on the in.yt-8.
- * 4. The output 10 of the in.yt-8 is limited to 1A. This output is normally used with low current accessories.

UL/CSA Standards

UL 1563 Sixth Ed. (2012)
UL File: E182156
CAN/CSA C22.2 No. 218.1-13 (2013)



In.ye and in.yt European Electrical Specifications

Input rating: 230/240 V nominal (+5/-10 %) 50 Hz, (3 lines required with neutral), three-phased system 16 A Max per phase.
or 230/240 V nominal (+5/-10 %) 50 Hz, (2 lines required with neutral), dual-phase system 20 A Max per phase.
or 230/240 V nominal (+5/-10 %) 50 Hz, (1 line required with neutral), single-phase system 48 A max.

Heat.wav rating:

Voltage: 230/240 V, 50 Hz
Wattage: 3,8 kW at 230 V or 2,8 kW at 230 V
Flow rate: A minimum of 18 GPM (68,1 LPM) is required

OUTPUT	VOLTAGE	MAXIMUM CURRENT	TYPICAL DEVICE	ye-3	ye-5	yt-7	yt-8	yt-12
Output 1	230/240 V	15 FLA/60 LRA (in-rush)	Pump 2 high speed		•	•	•	•
Output 2	230/240 V	15 FLA/60 LRA (in-rush)	Ozonator	•	•	•	•	•
Output 3	230/240 V	15 FLA/60 LRA (in-rush)	Pump 2 low speed		•	•	•	•
Output 4	230/240 V	15 FLA/60 LRA (in-rush)	Pump 1 high speed	•	•	•	•	•
Output 5	230/240 V	15 FLA/60 LRA (in-rush)	Pump 1 low speed	•	•	•	•	•
Output 6	230/240 V	15 FLA/60 LRA (in-rush)	Pump 3 low speed			•	•*1	•
Output 7	230/240 V	15 FLA/60 LRA (in-rush)	Circulation pump				•	•
Output 8	230/240 V	15 FLA/60 LRA (in-rush)	Pump 3 high speed			•		•
Output 9	230/240 V	20 FLA/80 LRA (in-rush)	Pump 4 high speed				•*2	•
Output 10	230/240 V	15 FLA/60 LRA (in-rush)	Pump 4 low speed				•*3	•
Output 11	230/240 V	15 FLA/60 LRA (in-rush)	Blower					•
Output 12	230/240 V	15 FLA/60 LRA (in-rush)	Pump 5					•
Direct out 1	230/240 V	5 A	Audio/video		•	•	•	•
Direct out 2	230/240 V	5 A	Audio/video			•	•	•

IMPORTANT:
 The maximum current for output 2 and heater output on fuse F1 may not exceed 20A.
 The maximum current for outputs 4, 5 and direct 1 on fuse F2 may not exceed 20A.
 The maximum current for outputs 1 and 3 on fuse F3 may not exceed 20A.
 The maximum current for outputs 6 to 8 and direct 2 on fuse F21 may not exceed 20A.
 The maximum current for outputs 11 and 12 on fuse F22 may not exceed 20A.
 The maximum current for outputs 9 and 10 on fuse F23 may not exceed 20A.
 The total maximum current for the fuses F22 and F23 may not exceed 30 A.

- * 1. The typical accessory for the output 6 on a in.yt-8 is a pump 3 high speed.
- * 2. It's possible to configure the output 9 as a secondary heater on the in.yt-8.
- * 3. The output 10 of the in.yt-8 is limited to 1A. This output is normally used with low current accessories.

European and International Standards

IEC 60335-1 : 2010
 IEC 60335-2-60 : 2002, A1 : 2004, A2 : 2008
 EN 60335-2-60 : 2003, A1 : 2005, A2 : 2008, A11 : 2011, A12 : 2010
 EN 60335-1 : 2012
 EN 62233 : 2008

EN55014-1
 EN55014-2
 EN61000-3-2
 EN61000-3-3



Environmental Ratings

Operating temperature: 32°F (0°C) to 136°F (58°C)
Storage temperature: -13°F (-25°C) to 185°F (85°C)
Humidity: Up to 85% RH, non condensing
Level of waterproofing: IPX5

Mechanical

in.ye
Weight: Up to 9.7 lbs (4.4 kg)
Dimensions (W x H x D): 19.60" x 10.75" x 4.98" (497 x 273 x 126 mm)

in.yt
Weight: Up to 12 lbs (5.45 kg)
Dimensions (W x H x D): 19.6" x 14.5" x 5.1" (497 x 368 x 130 mm)



Troubleshooting Guide

Y series and in.xe



Possible error codes

Error code explanation

Step by step troubleshooting



WARNINGS



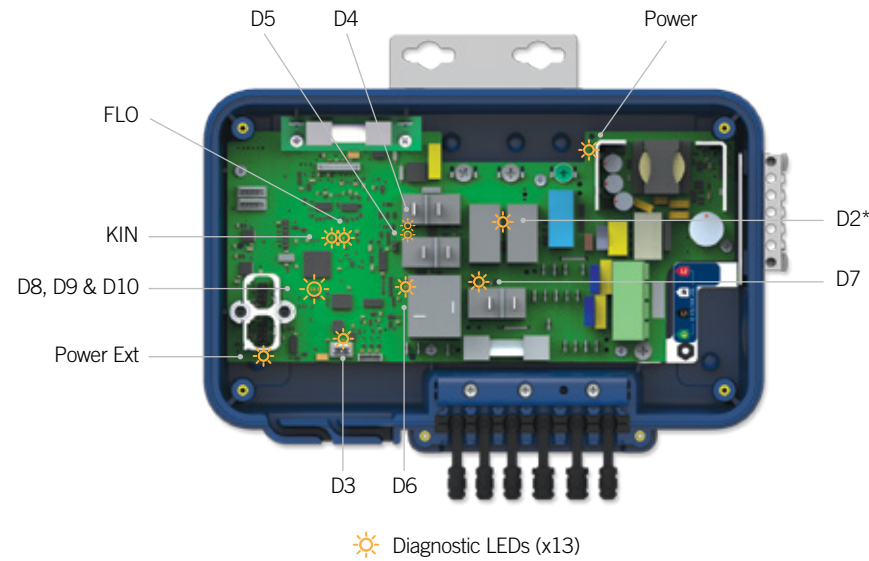
BEFORE INSTALLING OR CONNECTING THE UNIT, PLEASE READ THE FOLLOWING.

1. For units for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5 feet (1.52 metres) away, adjacent to, and within sight of the unit.
2. Any damaged cable must be immediately replaced by qualified personnel.
3. Turn power off before servicing or modifying any cable connections in this unit.
4. To prevent electric shock hazard and/or water damage to this control, all unused bushing conduits must be plugged with the attached nipple.
5. This controller must not be installed in proximity of highly flammable materials.
6. Low supply voltage or improper wiring may cause damage to this control system. Read and follow all wiring instructions when connecting to power supply.
7. This pack contains no user serviceable parts. Contact an authorized service centre for service.
8. All connections must be made by a qualified electrician in accordance with the National Electrical Code and any state, provincial or local electrical code in effect at the time of the installation.
9. Product must be disposed of separately in accordance with local waste disposal legislation.
10. 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 are supervised and/or have been given instructions concerning use of the appliance by a person responsible for their safety.
11. Children should be supervised to ensure that they do not play with the appliance.
12. Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
13. **CAUTION:** in order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
14. Parts containing live parts, except parts supplied with safety extra-low voltage not exceeding 12 v, must be inaccessible to a person in the spa.
15. Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the spa.
16. Parts are to be installed in the correct zone and equipotential bonding carried-out in accordance with the wiring rules.
17. Clearance and minimum distance between the various parts of the appliance and the surrounding structure are not specified as long as they are sufficient so that the ambient temperature around the controller does not exceed 60°C (140°F).

SAVE THESE INSTRUCTIONS

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* D2 designation is not visible on the PCB, D2 is situated between component RD2 and E2.

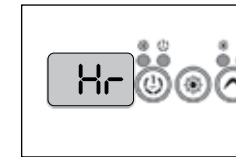
Case	Designation	Description	Details	Action
1	Power	General 12V power supply status	Should always be ON If OFF, nothing will work. Possible causes:	
			Input not connected	Check the input connection on P12
			Installation main breaker OFF	Check the main breaker of the installation. Go to GFCI/RDC Trips section.
			Short on one connector between 12V line and near signal	Check following connectors in order: P22 (C-pin 6); P17 (CO-pin 6); P38 (RGB-pin 4), P33 (LIGHT-pin 3), P1 (pin 4)
		Issue on board	Change the in.yj-V3 board	
2	Power Ext	External 12V and 5V power supplies status	Should always be ON If OFF, external accessories won't work. Possible causes:	
			Short on one connector between 12V line and near signal	Check following connectors in order: P22 (C-pin 6); P17 (CO-pin 6)
			Short on one connector between 5V line and near signal	Check following connectors in order: P22 (C-pin 4); P17 (CO-pin 4); P1 (pin 4); P8 (Pin 1)
3	D8, D9 & D10	MCU status	D8 should always blink, D9 and D10 are always OFF. If not, possible causes:	
			The board is starting (power on)	Wait about 10 seconds
			D8, D9 and D10 flashing in sync: bootloader present, but there is no valid firmware in the MCU memory	Power down the in.yj, insert an in.stik with a valid software and reapply power
			D8 always ON (more than 10 seconds), D9 and D10 are always OFF: the in.yj is in UPL state	Power down the in.yj, insert an in.stik with a valid software and reapply power

Case	Designation	Description	Details	Action
			D8 always ON, D9 flashing and D10 is always OFF: software loading from an in.stik in progress	Wait about 1 minute
			POWER Led is OFF	Go to case #1
			Issue on board	Change the in.yj-V3 board
4	D2	HL Relays (K2-K3) cmd status	Should always be ON If OFF, possible causes:	
			High Limit situation happens	Go to HL section
			Remote heater cable or the probes cable disconnected	Check remote heater cable or Probe cable
			F2 burnt (on CE models only)	Check F2
5	D6	Pump 1 low relay (K6) cmd status	Should always be ON when the pump 1 is running in low speed, and OFF otherwise.	
			If Led ON and pump isn't running:	
			Issue on pump and connection	Check pump connection
			F2 burnt	Check F2
			If Led OFF and pump running:	
		Issue on relay K6	Change the in.yj-V3 board	
6	D7	Pump 1 high relay (K7) cmd status	Should always be ON when the pump 1 is running in high speed, and OFF otherwise.	
			If Led ON and pump isn't running:	
			Issue on pump and connection	Check pump connection
			F2 burnt	Check F2
		If Led OFF and pump running:		
		Issue on relay K7	Change the in.yj-V3 board	
7	D5	Pump 2 relay (K5) cmd status or Kinetic protection (-KR option) relay (K5) cmd status	Should always be ON when the pump 2 is running, and OFF otherwise.	
			If Led ON and pump isn't running:	
			Issue on pump and connexion	Check pump connection
			F2 or F4 burnt	Check F2 and F4
		If Led OFF and pump running:		
		Issue on relay K5	Change the in.yj-V3 board	
8	D4	Regulation relay (K4) cmd status	Should always be ON when the system is heating and OFF otherwise.	
			If Led ON and no heating:	
			Issue heater connection	Check heater connection
			F2 burnt (on CE models only)	Check F2
			Issue on remote heater	Change remote heater
		If Led OFF and heating:		
		Issue on relay K4	Change the in.yj-V3 board	

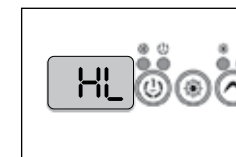
ERROR CODES ON IN.YJ, IN.YE, IN.YT AND IN.XE CONTROL SYSTEMS

The error codes indicate a failure or problem that must be rectified to ensure proper functioning of the system. The error code and the water temperature are displayed alternately on the keypad.

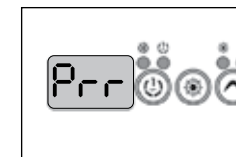
The error messages listed below display on the LCD and LED keypads. If your spa is equipped with a colour keypad, please refer your Techbook for more information on error messages.



Hr
An internal error with the system hardware has been detected.



HL
The water temperature in the water heater has reached 119°F (48°C).
Do not enter spa water!



Prr
The system detects a problem with the regulation probe. The system constantly verifies if the temperatures read by the probe are inside the normal limits.



FLO
The system has detected no water flow during the main pumps operation.



UPL
No low-level configuration is present in the control system memory, insert a valid in.stik to program the control unit.



AOH
The temperature inside the spa skirt is too high and causes an increase of the internal temperature of the control system above normal limits.



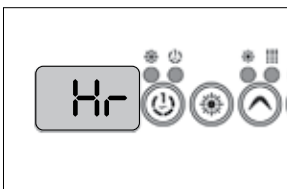
OH
The spas water temperature has reached 108°F (42°C)
Do not enter spa water!

Case	Designation	Description	Details	Action
9	FLO	Flow detection status	Should be ON when flow is detected and OFF otherwise. If not possible causes: Pump 1 low isn't running The system is running a flow checking sequence The flow rate is too low Issue on remote heater	If a FLO error message, go to FLO section Go to case #5 Wait approximately 2 minutes Make sure the installation respects the flow rate requirements Change remote heater
10	KIN	KINETIC protection status	Should be OFF on normal situation. If ON, possible causes: KINETIC state: No flow detected for more than 2 hours Flashing: internal communication between the remote heater and the pack Issue on remote heater	If a FLO error message, go to FLO section Wait 2 hours and validate the status of the LED KIN again to confirm that KINETIC error is permanent n/a Change the remote heater
11	D3	Light & RGB cmd status	Is ON only when the Light is turned ON by the user, and OFF otherwise. If not possible causes: No POWER	Go to case #1

Hr Error Message



An internal error with the hardware was detected.

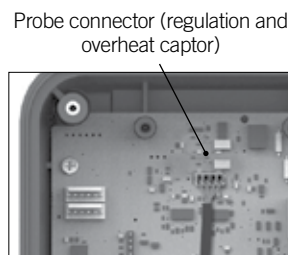


- Restart the spa system, then start and stop all pumps and blowers.
- If the error persists, replace the control system.

HL Error Message



The system has stopped because the water temperature in the water heater reached 119°F (48°C).



in.yj-re

Warning! Do the following operations with caution as the water heater's body may be very hot.

- Measure the water temperature with a digital thermometer and compare the measured temperature with the one displayed on the keypad.

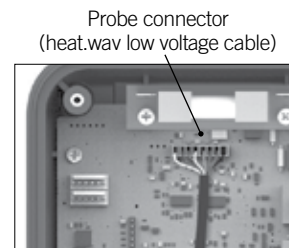
If the measured temperature below 119°F (48°C):

For the in.yj-re control systems:

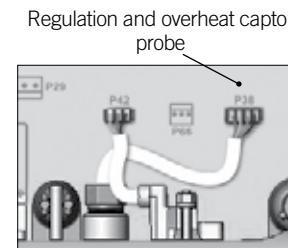
- Verify that the regulation and overheat probe is correctly placed in the plumbing. If it is, ensure that nothing is blocking the water flow (closed valves or clogged filter).
- Verify that the probe is correctly plugged into the probe connector (P40).
- Turn the spa off and turn it back on to reinitialise the system.
- If error HL persists replace the probe.
- If error HL persists after the probe replacement, replace the control system.

If the measured temperature is below 119°F (48°C) and the water heater's body is hot:

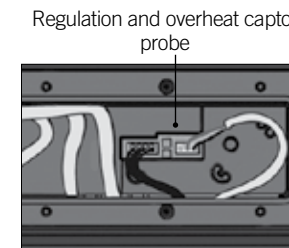
- Using caution, verify the water heater's body temperature. If it is hot, ensure that nothing is blocking the water flow (closed valves or dirty filter).
- Turn the spa off and turn it back on to reinitialise the system.
- If error HL persists, replace the water heater.
- If error HL persists, replace the control system.



in.yj



in.ye and in.yt



in.xe

If the measured temperature is below 119°F (48°C) and the water heater's body is not hot:

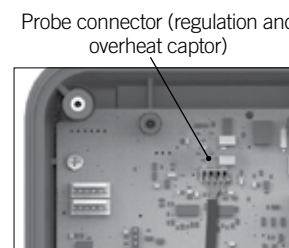
For the in.yj control systems:

- Verify that the heat.wav low voltage cable is correctly plugged into the probe connector (P1).

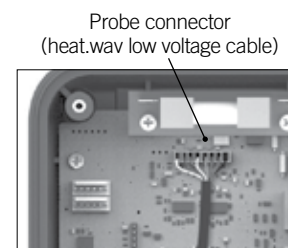
For the in.ye, in.yt and in.xe control systems:

- Verify that the regulation and overheat captor are plugged in correctly.
- Turn the spa off and turn it back on to reinitialise the system.

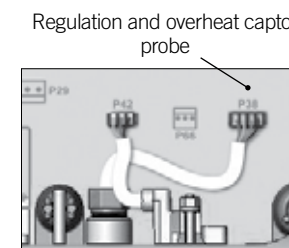
- If error HL persists replace the water heater.
- If error HL persists replace the control system.



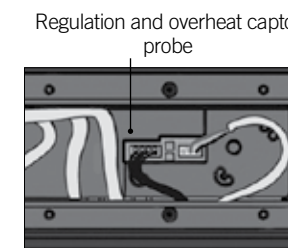
in.yj-re



in.yj



in.ye and in.yt



in.xe

If the measured temperature is 119°F (48°C) or above and does not correspond to the one displayed on the keypad:

For the in.yj-re control systems:

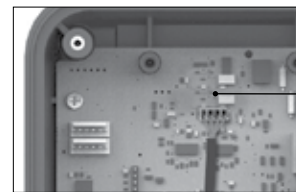
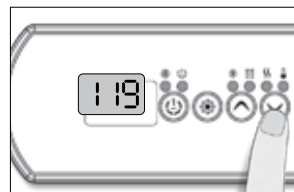
- Verify that the probe is correctly plugged into the probe connector (P40).
- If the cable is correctly plugged in, replace the probe.
- Turn the spa off and turn it back on to reinitialise the system.
- If error HL persists replace the control system.

For the in.yj control systems:

- Verify that the heat.wav low voltage cable is correctly plugged into the probe connector (P1).

For the in.ye, in.yt and in.xe control systems:

- Verify that the regulation and overheat captor are plugged in correctly.
- If the cable is correctly plugged in, replace the water heater.
- Turn the spa off and turn it back on to reinitialise the system.
- If error HL persists replace the control system.



Probe connector (regulation and overheat captor)

in.yj-re

If the measured temperature is 119°F (48°C) or above and the exterior temperature is very high:

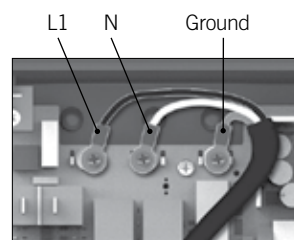
- Fully open the spa cover.
- Start the blowers if the spa is equipped with it.
- Wait for the spa to cool down (add cold water if needed). This may take several hours.
- Turn the spa off and turn it back on to reinitialise the system.

If the measured temperature is 119°F (48°C) or above and the exterior temperature is not the cause:

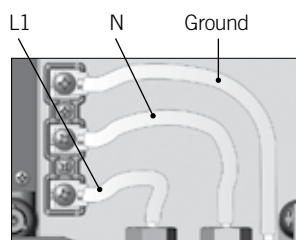
For the in.yj-re control systems:

- Verify that the probe is correctly plugged into the probe connector (P40).
- Set the set point value to a temperature lower than the actual water temperature. The water heater indicator should turn off.
- Turn off all the pumps. If a pump is still running, replace the control system.
- Turn the spa off and turn it back on to reinitialise the system.
- If error HL persists replace the probe.

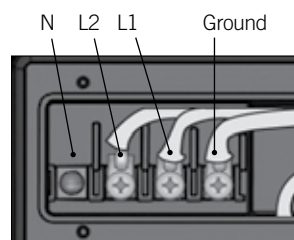
- If error HL persists after the probe replacement, replace the control system.



in.yj



in.ye and in.yt



in.xe

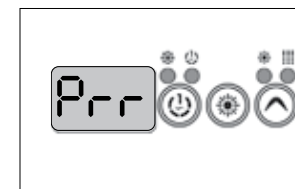
If the measured temperature is 119°F (48°C) or above and the exterior temperature is not the cause:

For the in.yj, in.ye, in.yt and in.xe control systems:

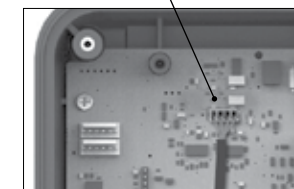
- Set the set point value to a temperature lower than the actual water temperature. The water heater indicator should turn off.
- Use the voltmeter on the water heater's terminal block to measure the tension between the line (L1) and the ground.
- If you measure 120 V or 240 V, replace the control system.
- If you do not measure 120 V or 240 V, the pump may be heating the water excessively during the filtration cycle.
- Reduce the length of the filtration cycle.
- Turn the spa off and turn it back on to reinitialise the system.

Prr Error Message

Prr Problem with the regulation probe



Probe connector (regulation and overheat captor)

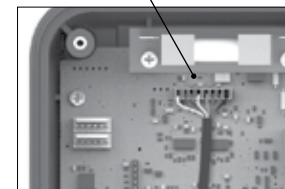


in.yj-re

For the in.yj-re control systems:

- Verify that the probe is plugged in correctly to the probe connector (P40).
- Replace the probe if problem persists.
- If error persists after the probe replacement, replace the control system.

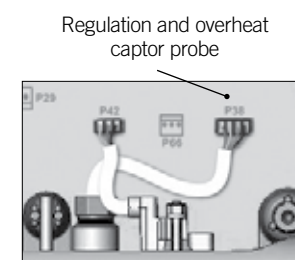
Probe connector (heat.wav low voltage cable)



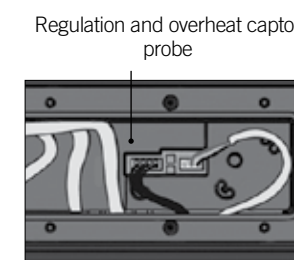
in.yj

For the in.yj control systems:

- Verify that the heat.wav low voltage cable is correctly plugged into the probe connector (P1).
- If error persists replace the water heater.
- If error persists replace the control system



in.ye and in.yt



in.xe

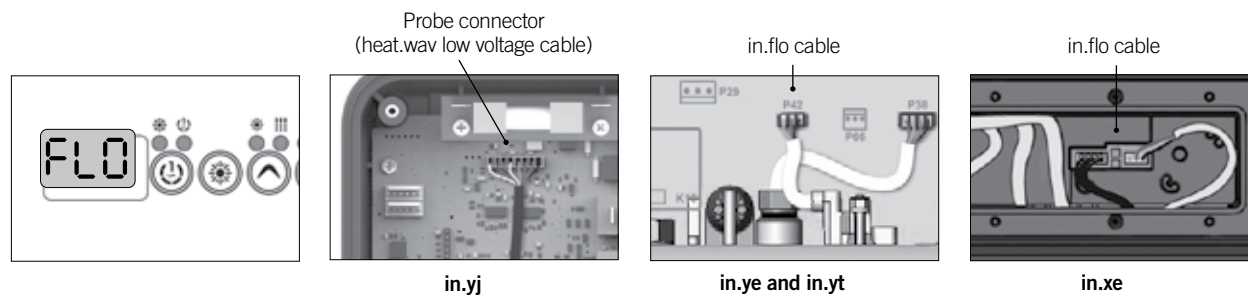
For the in.ye, in.yt and in.xe control systems:

- Verify that the regulation and overheat captor probe (situated over the heater) are plugged in correctly.
- Replace the water heater if the problem persists.
- Replace the control system if the problem persists.

FLO Error Message

FLO The system has detected no water flow during the main pumps operation.

Ensure that the selected low-level is compatible with your spa's components. Verify that the pump linked to the heating is configured correctly. (See HL error message).



- Ensure the water circulation valves are open and that the water level is high enough.
- Verify that nothing is blocking the filter.
- Ensure the flow is adequate (minimum 68 LPM/ 18 GPM).
- Ensure no air bubbles are trapped in the plumbing circuits of the device (the pumps may be making abnormal sounds). If bubbles have formed, start the pump, slowly unscrew one of the union nuts to free the air trapped in the plumbing. Tighten the nut when done.
- Ensure the pump linked to the water heater (main pump) is running.
- For in.yj control systems, verify the water heater's low voltage cable is linked correctly to the probe connector (P1).
- For the in.ye, in.yt and in.xe control systems, ensure the in.flo cable (located over the water heater) is plugged in correctly.
- If the problem persists, replace the water heater.
- If the problem still persists, replace the control system

UPL Error Message

UPL No low-level configuration is present in the control system memory!



- Insert a valid in.stik to program the low-level configurations in the control unit. Without them, the system cannot function.

For technical assistance, use our toll-free number (1 800 784-3256)

Note: This line is dedicated to assist authorized service technicians and dealers only.

AOH Error Message

AOH The temperature inside the spa skirt is too high.



- Remove the spa skirt and let the water temperature cool down until the error disappears.
- Replace the control system if the problem persists.

OH Error Message

OH The spas water temperature has reached 108°F (42°C).



· Measure the water temperature with a digital thermometer and compare the measured temperature with the one displayed on the keypad.

If the measured temperature is different from the one displayed on the keypad (lower than 108°F / 42°C):

- Turn the spa off and turn it back on to reinitialise the system.
- For in.yj-re control system, if the error persists, replace the probe.
- For in.yj, in.ye, in.yt and in.xe control systems, if the error persists, replace the water heater.
- If error still persists, replace the control system.

If the measured temperature corresponds to the one on the keypad (higher than 108°F / 42°C) and the exterior temperature is high:

- Remove the spa cover and let the spa cool down.
- Add cold water and reduce filtration cycle length.
- If error still persists, replace the control system.

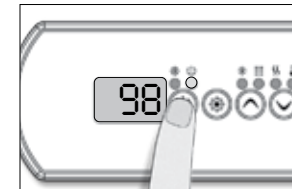
If the measured temperature corresponds to the one on the keypad (higher than 108°F / 42°C) and the exterior temperature is not high:

- Set the set point value to a temperature below that of the spa water.
The keypad's water heater indicator should turn off.
- Turn off all pumps*. If one of the pumps is still running, replace the control system.
- The pump may be excessively heating the water during the filtration cycle. Reduce filtration cycle length.

** Note: The main pump may not turn off if you are currently running a filtration cycle.*

PUMP 1, 2, 3, 4, 5 OR THE BLOWER IS NOT WORKING

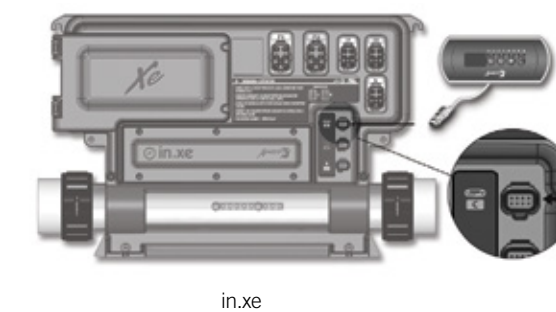
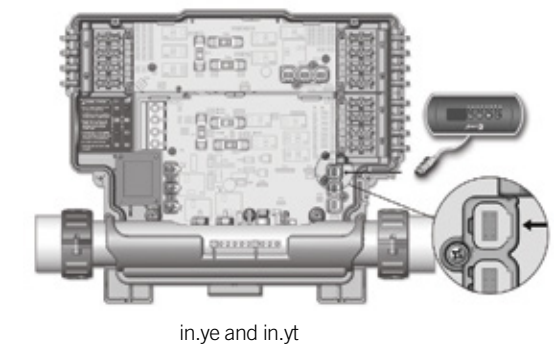
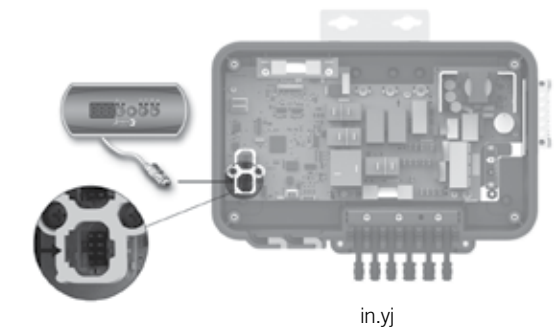
If Pump 1, 2, 3, 4, 5 or The Blower Is Not Working:



- Verify if an error message is displayed on the keypad. If so, refer to the corresponding section.
- Ensure the selected low-level configuration is compatible with your spa's components.
- Verify the indicator linked to your pump and blower on the keypad turns on when you press on the corresponding key.

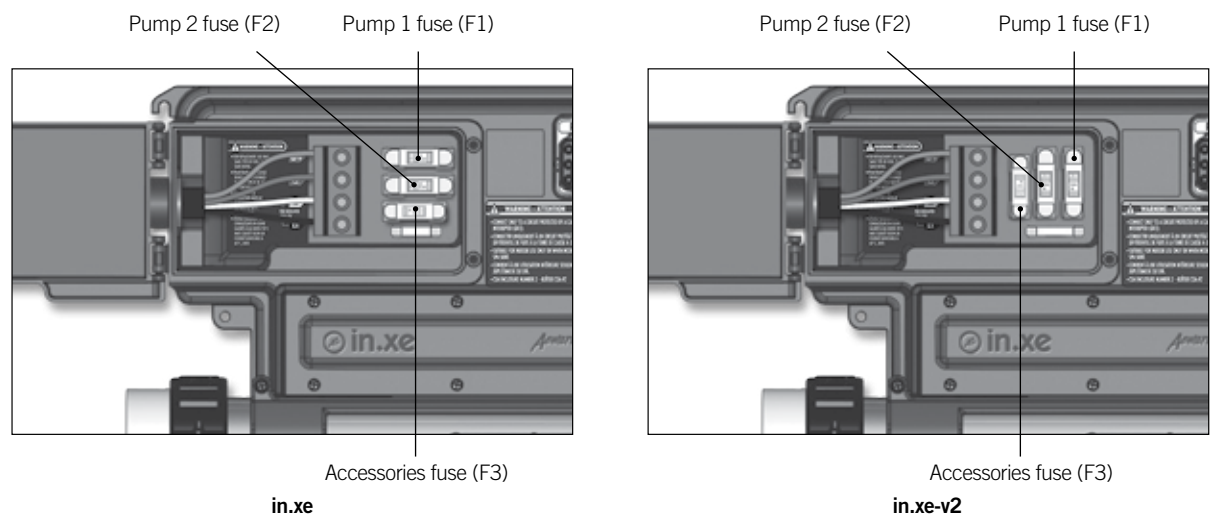
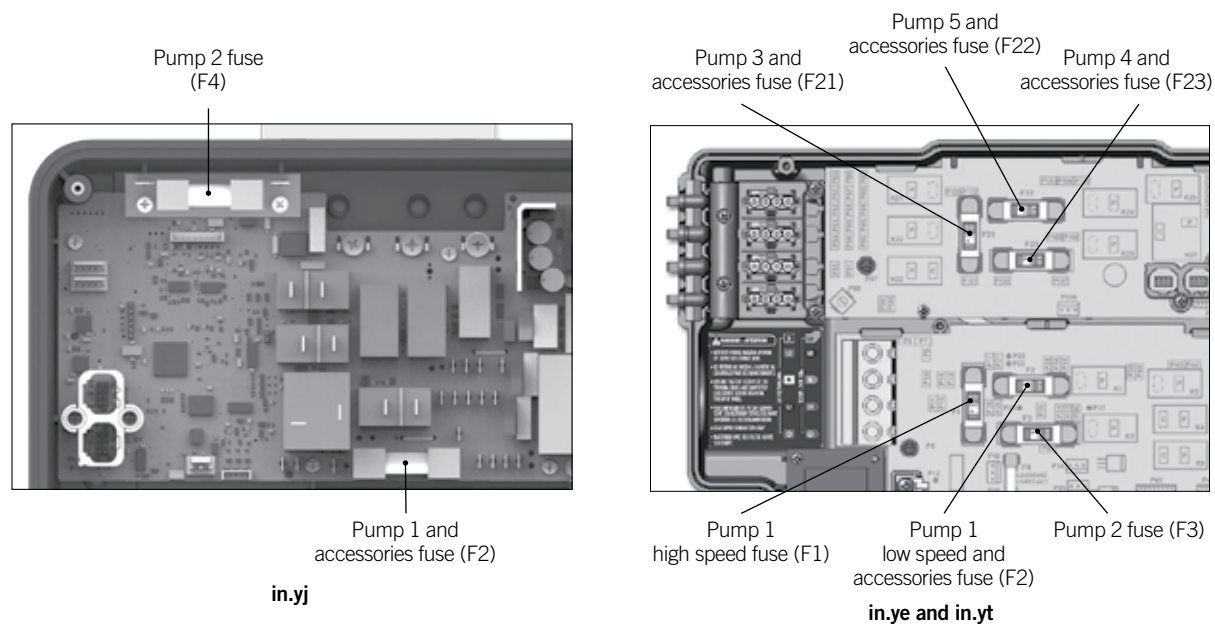
If the indicator does not light up:

- Use a replacement keypad to verify the state of the original.
- Replace the keypad if defective.
- If the keypad works correctly, replace the control system.



If the indicator lights up:

- Verify your pump is working on both speeds (if dual speed pump) and your accessories work correctly (i.e. blower).



If your pump is not working on both speeds (if dual speed pump) or if your accessories (i.e. blower) are not working:

- Replace the problematic fuse linked to your pump or your accessory (i.e. blower) with a new one.
- Verify the fuse replacement rectifies the problem.

Note: The accessories linked to every fuse are indicated as an example, every OEM has its own configurations.

If replacing the fuse has no effect, or if the pump only works on one speed, measure the tension of the corresponding connector:

- Activate your pump on the problematic speed or the accessory (i.e. blower).
- Referring to your control systems connexion diagram, measure the tension between the pump or blower output and its return.

You should measure:

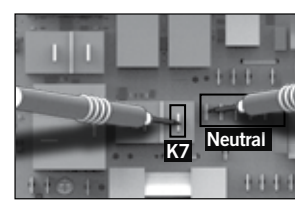
- 120 V for a 120 V pump or accessory
- 240 V for a 240 V pump or accessory

If the tension is compliant, verify the cables and connectors and replace if necessary. If need be, replace the pump or the accessory.

If the tension is not compliant, replace the control system.

Measuring tension on in.yj:

Example: your pump 1 high speed (240V) is not working.
Referring to the connexion diagram you may see that the pump 1 output is connected on K7-P (Pump 1 high speed) and the return should be on one of the TAB of line 2 (P14, P15, P16 or P37) for a 240V pump and on one of the Neutral TAB (P18, P19, P20, P21 or P35) for a 120V pump.

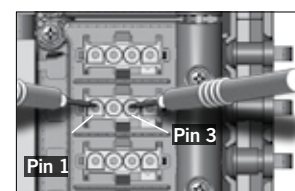


Measure the tension between the K7-P and your return (Line 2 or Neutral), you should measure:

- 120 V for a 120 V pump or accessory
- 240 V for a 240 V pump or accessory

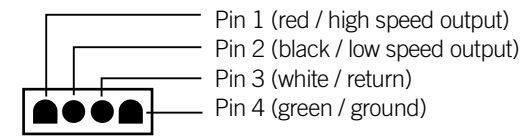
Measuring tension on in.ye and in.yt:

Example: your pump 1 high speed (240V) is not working.
Referring to the connexion diagram you may see that the pump 1 output is linked to the A3 connector (pump 1 output).



Measure the tension between pin 1 (pump 1 high speed output) and pin 3 (return), you should measure:

- 120 V for a 120 V pump or accessory
- 240 V for a 240 V pump or accessory

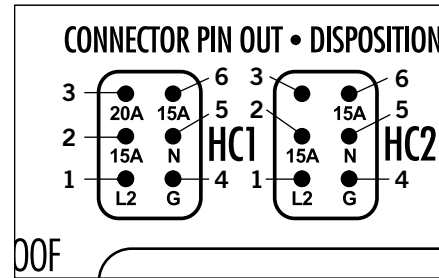


Measuring tension on in.xe:

Example: your pump 1 high speed (240V) is not working.

Referring to the front connector identifiers, you may see the pump 1 output is on the P1 connector.

You may then refer to the "Connector pin out" on the front of the in.xe, you will notice the output for your pump 1 is on pins 2 and 3 (pump 1 high speed 20A and 15A) and the return should be on pin 1 (line 2) for a 240V pump and on pin 5 (neutral) for a 120V pump.

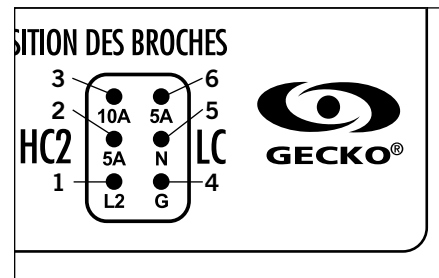


HC1

- Pin 1 (Line 2)
- Pin 2 (Output (1) high speed, 15A)
- Pin 3 (Output (1) high speed, 20A)
- Pin 4 (Ground)
- Pin 5 (Neutral)
- Pin 6 (Output (1) low speed, 15A)

HC2

- Pin 1 (Line 2)
- Pin 2 (Output (2) high speed, 15A)
- Pin 3 (NC)
- Pin 4 (Ground)
- Pin 5 (Neutral)
- Pin 6 (Output (3) low speed, 15A)

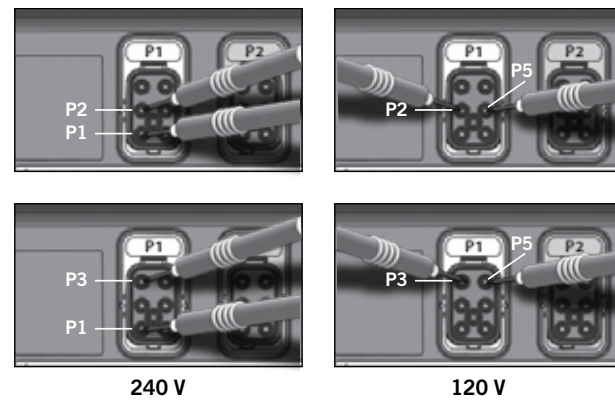


LC (1)

- Pin 1 (Line 2)
- Pin 2 (Output (3), 5A)
- Pin 3 (Output (3-4), 10A)
- Pin 4 (Ground)
- Pin 5 (Neutral)
- Pin 6 (Output (4), 5A)

LC (2)

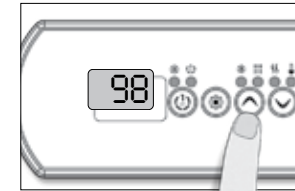
- Pin 1 (Line 2)
- Pin 2 (Output (4), 5A)
- Pin 3 (Output (4), 10A)
- Pin 4 (Ground)
- Pin 5 (Neutral)
- Pin 6 (NC)



Measure the tension between P1 connector pins 2-3 (output pump 1 high speed 20A and 15A) and pin 1 or 5 (return line 2 or neutral), you should measure:

- 120 V for a 120 V pump or accessory
- 240 V for a 240 V pump or accessory

THE CIRCULATION PUMP IS NOT WORKING



If the circulation pump is not working:

- Ensure the selected low-level configuration is compatible with your spas material.
- Start the circulation pump, by setting the set point temperature 2°F above the actual water temperature.

Measure the tension on the corresponding connector:

- Referring to your control systems connexion diagram, measure the tension between the output of your circulation pump and its return.
- You should measure:
 - 120V for a 120V circulation pump
 - 240V for a 240 V circulation pump

If the measured tension is not compliant:

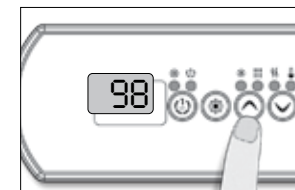
- Replace the accessories fuse.
- If replacing the fuse does not fix the problem, replace the control system.

If the measured tension is compliant:

- Replace the circulation pump.

THE OZONATOR IS NOT WORKING

Note: The ozonator stops automatically when an accessory is started manually (i.e. pumps, blower, light).



If the ozonator is not working:

- Verify the status of the filtration cycle indicator on the keypad display.
- If the «Filtration» indicator flashes, it signals that the system has interrupted the filtration cycle. In this case, restart the breaker then restart the power to reinitialise the cycle.
- If the «Filtration» indicator is not flashing, start the filtration cycle (Refer to the Quick Reference Card for your keypad).

If the ozonator is not working and the filtration indicator is ON:

- Referring to the connexion diagram of your control system, measure the tension between the ozonator output and its return.
- You should measure:
 - 120V for a 120V ozonator
 - 240V for a 240V ozonator

If the measured tension is not compliant:

- Replace the accessories fuse.
- If replacing the fuse does not fix the problem, replace the control system.

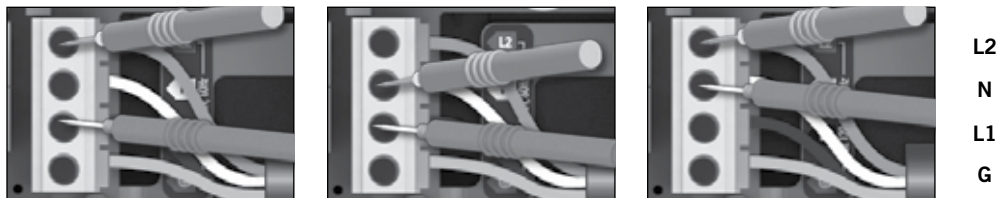
If the measured tension is compliant:

- Replace the ozonator.

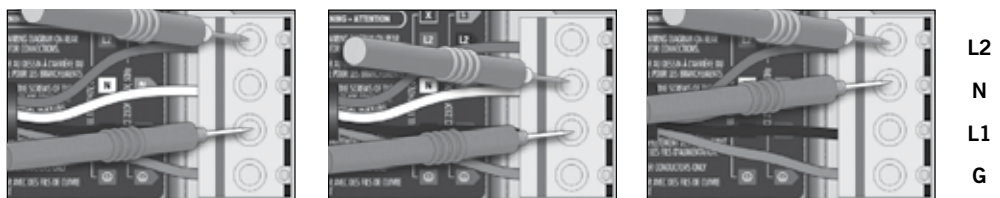
NOTHING SEEMS TO BE WORKING (NORTH AMERICAN MODELS)

Turn the system off and verify that all screws on the terminal block are tight.
Pull on the cables to ensure that they are solidly fixed. Turn the device back on.

in.yj



in.ye & in.yt



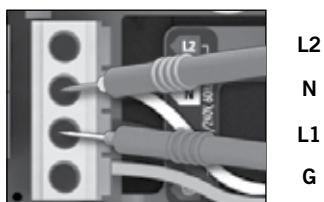
in.xe



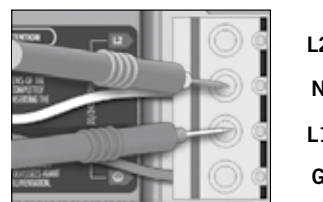
For 240 V systems

- On the terminal block, measure the tension between line 1 and line 2. You should measure 240V.
- Measure the tension between line 1 and neutral. You should measure 120V.
- Measure the tension between line 2 and neutral. You should measure 120V.

in.yj



in.ye & in.yt



in.xe

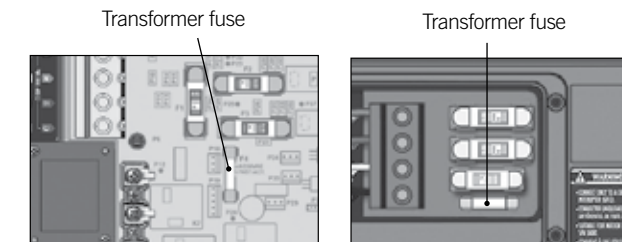
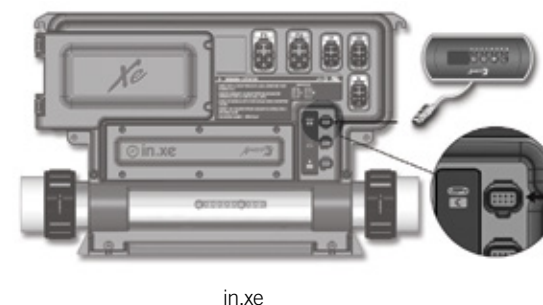
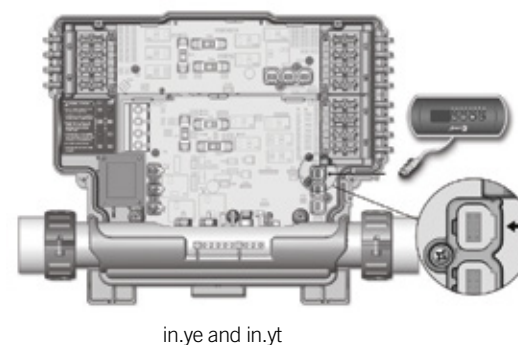
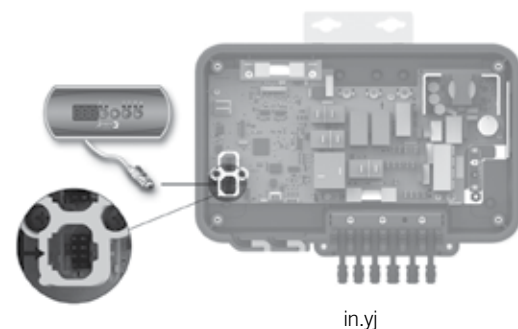


For 120V systems

- Measure the tension between line 1 and neutral. You should measure 120 V.

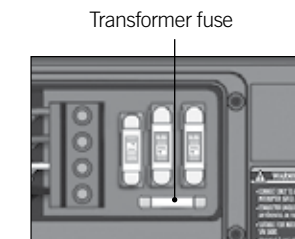
If readings are correct:

- Verify that the keypad is linked correctly to the control system.



in.ye and in.yt

in.xe



in.xe-v2

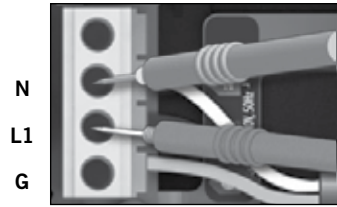
If readings are correct and keypad is linked correctly:

- Verify the transformer fuse. (Available only on in.ye, in.yt and in.xe control systems.)
- Replace the transformer fuse, if necessary.
- If problem persists, replace the control system.

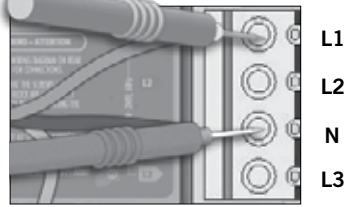
NOTHING SEEMS TO BE WORKING (CE/AS/NZS OR EURO MODELS)

Turn the system off and verify that all screws on the terminal block are tight. Pull on the cables to ensure that they are solidly fixed. Turn the device back on.

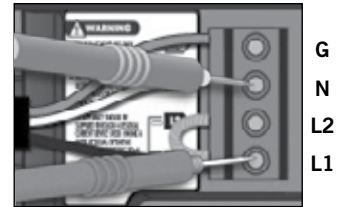
in.yj



in.ye and in.yt



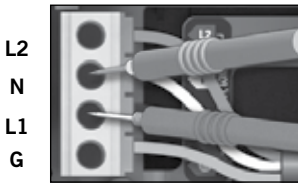
in.xe



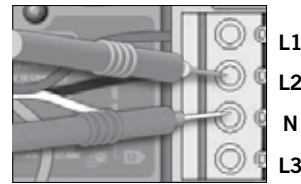
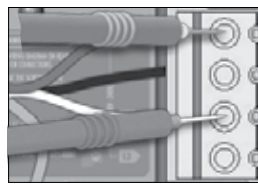
For single phase system

- Measure the tension between line 1 (L1) and neutral (N). You should measure 230 V.

in.yj



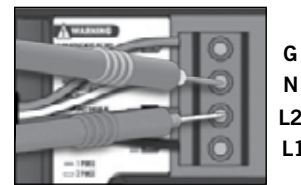
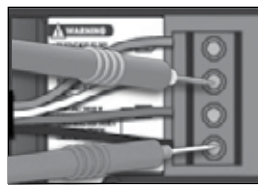
in.ye and in.yt



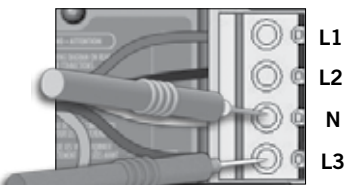
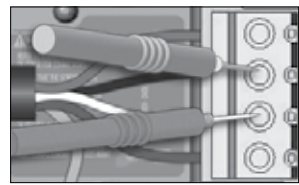
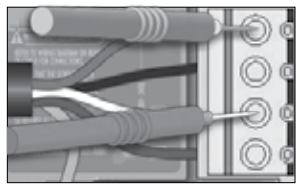
For dual phase system

- Measure the tension between line 1 (L1) and neutral (N) and between line 2 (L2) and neutral (N). You should measure 230V in both cases.

in.xe



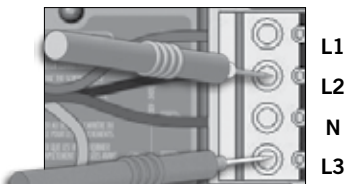
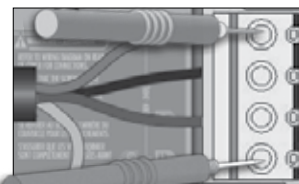
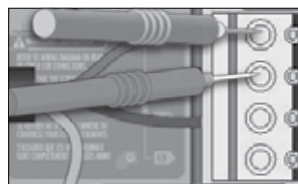
in.ye and in.yt



For triple phase system

- Measure the tension between line 1 (L1) and neutral (N) and between line 2 (L2) and neutral (N) and between line 3 (L3) and neutral (N).
- You should measure 230V in all cases.

in.ye and in.yt

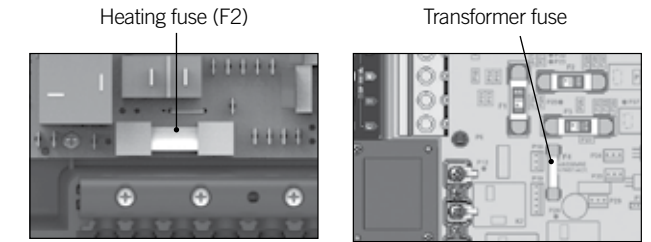
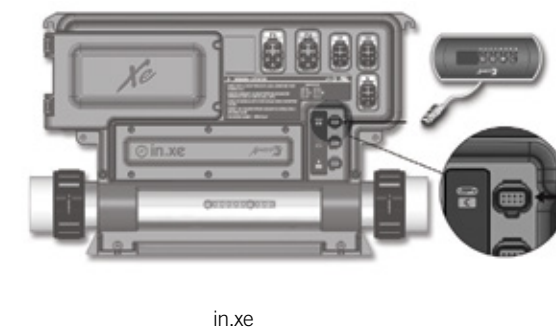
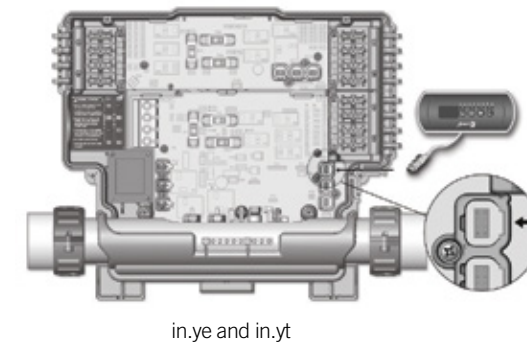
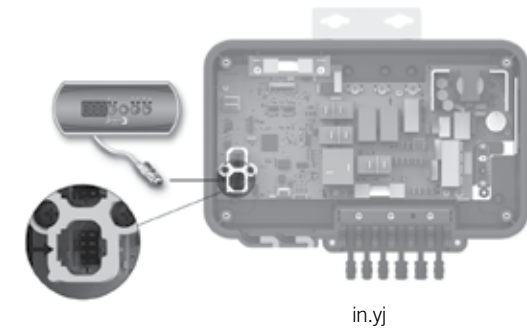


For delta triple phase system

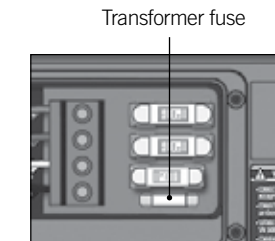
- Measure the tension between line 1 (L1) and line 2 (L2), between line (L1) and line 3 (L3) and between line 2 (L2) and line 3 (L3).
- You should measure 230V in all cases.

If tension readings are correct:

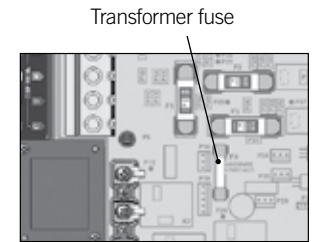
- Verify that the keypad is linked correctly to the control system.



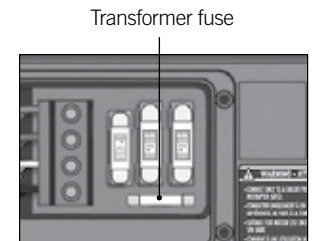
in.yj (CE/AS/NZS models only)



in.xe



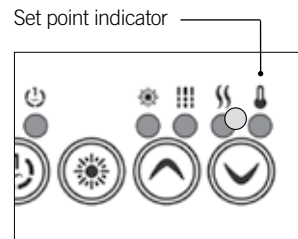
in.ye and in.yt



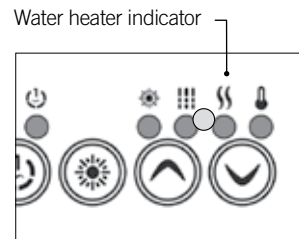
in.xe-v2

If readings are correct and keypad is linked correctly:

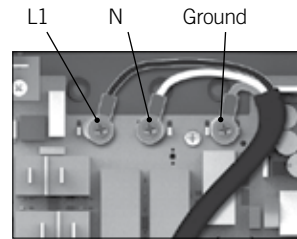
- For in.yj systems, replace fuse (F2).
- For in.ye, in.yt and in.xe control systems, verify the transformer fuse.
- Replace the transformer fuse, if necessary.
- If the problem persists, replace the control system.



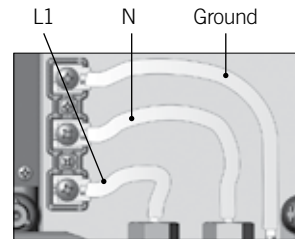
- Verify if an error message is displayed on the keypad. If so, refer to the corresponding section.
- If no message is displayed, try increasing the water temperature by setting the set point value 2°C above the actual water temperature. Press on the Up key to increase temperature.



- Verify if the water heater indicator lights up.
- The water heater indicator is lit up when the water heater is active. It flashes when an increase in temperature has been demanded but the water heater has not yet started.



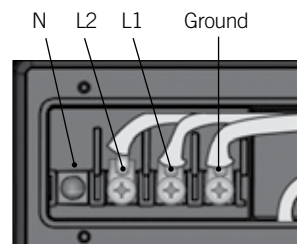
in.yj



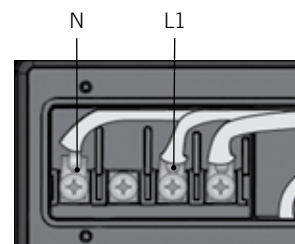
in.ye and in.yt

If the water heater indicator lights up:

- Take voltage readings at the heater terminals.
- For the in.yj and in.ye, in.yt, you should measure:
- 240 V: between the line (L1) and neutral (N) for control systems configured for 240V.
 - 120 V: between the line (L1) and neutral (N) for control systems configured for 120 V .



in.xe - 240 V water heater (5,5kW, 4 kW or 2 kW)



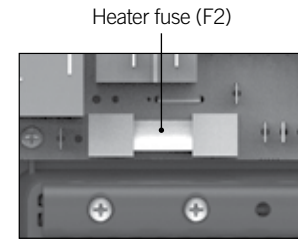
in.xe - 120 V water heater (1 kW)

For in.xe control systems, you should measure:

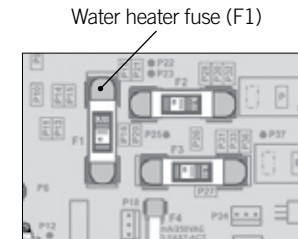
- 240 V: between line 1 (L1) and line 2 (L2)
- 120 V: between line 1 (L1) and neutral (N)

For North American control systems, if the measured tension is not correct, verify that the water heater terminals are correctly plugged in.

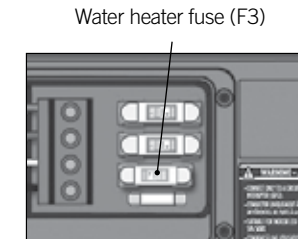
If they are correct replace the control system.



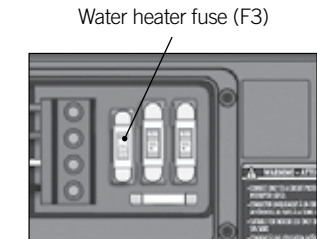
in.yj (CE/AS/NZS models only)



in.ye et in.yt (European models only)



in.xe (European models only)



in.xe-v2 (European models only)

For European control systems, if the measured tension is not correct, replace the water heater fuse.

- in.yj - F2 fuse
- in.ye and in.yt – F1 fuse
- in.xe - F3 fuse

If the tension is correct, ensure that the water heaters power cables are correctly plugged into the control systems terminal block. If so, replace the water heater.

If the water heater indicator does not display on the keypad, measure the water temperature and compare with the displayed temperature:

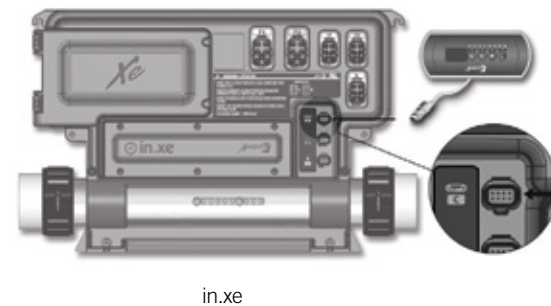
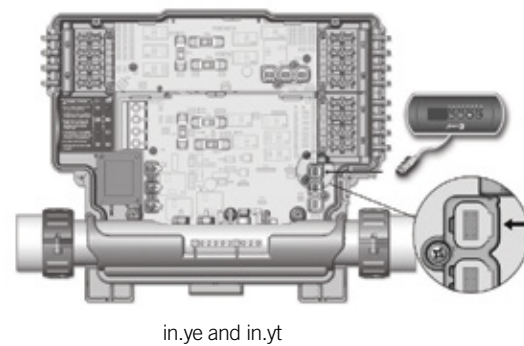
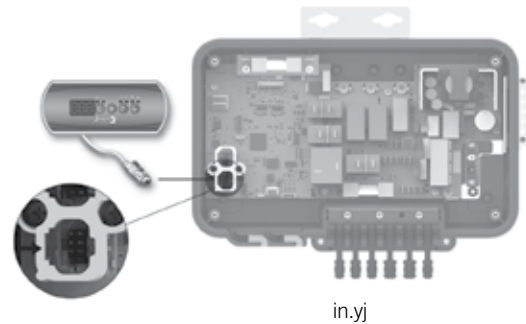
- If the difference is lower than 2°F (1,1°C), there is not problem.
- If the difference is higher than 2°F (1,1°C), replace the water heater.

If the problem persists, replace the control system.

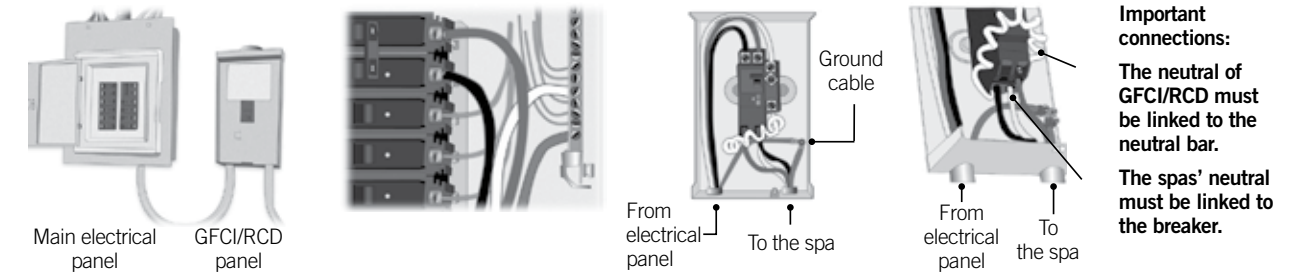
THE KEYPAD DOES NOT SEEM TO WORK

If the keypad does not seem to work:

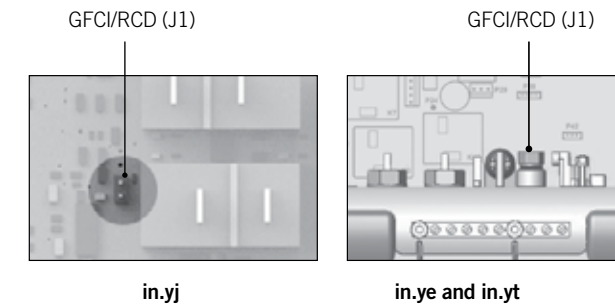
- Verify the keypad connexions and try with a replacement keypad.
- Replace the keypad if the replacement keypad fixes the problem.
- Replace the control system if problem persists.



GFCI/RCD TRIPS



Warning
Total current output cannot exceed total input current rating!
 There are different, models of GFCI/RCD on the market. Refer to the manufacturer's instructions for details on the GFCI/RCD characteristics. Note that the illustrations are given as examples only.



The Y series systems are equipped with a GFCI/RCD tripper circuit in case an HL error occurs.

- For the in.yj control systems, the GFCI/RCD tripper circuit (J1) is placed on the card, close to the K5 relay; localise it and remove the jumper.
- For the in.ye/yt, the GFCI/RCD tripper circuit (J1) is placed on the card, behind the temperature probe; localise it and remove the jumper.
- Reset the GFCI/RCD and see if the error occurs.
- If an HL error displays, follow the trouble shooting steps (in the HL error section).
- If no error occurs, reinstall the jumper.

Note : If the GFCI/RCD trips only when jumper (J1) is installed, replace the spa pack.

The GFCI/RCD trips and the jumper (J1) is not installed; the error does not come from the GFCI/RCD tripper circuit.

- Ensure the breaker circuit is connected properly.
 - If it is not, reconnect it.
 - Verify the cable connexions of the spa (ensure that the neutral and ground are not inverted).
- If the connexion is correct but the GFCI/RCD still triggers:**
- Unplug all system outputs (i.e. pump, blower, water heater, ozonator, etc.).
 - If the GFCI/RCD does not trigger when all outputs are unplugged, reconnect the outputs, one by one, until the GFCI/RCD trips again.
 - Replace the defective parts.

Note: In case of a faulty connection, the GFCI/RCD may NOT trigger when it should and thus expose the user to an electrical shock. Only qualified personnel may intervene on the electrical installations.



SERVICE CALLS

Your spa warranty gives you specific coverage. Be sure to read the enclosed warranty carefully. It is your responsibility to be aware of and perform maintenance specific to your spa model and environment. Should you have any questions, please do not hesitate to contact your dealer or Pacific Spas. As issues that relate to poor maintenance are not covered under warranty it is very important that you follow the maintenance guidelines in this manual.

Failure to adhere to regular maintenance procedures will lead to improper water balance, which will in turn contribute to the failure of the heater element, pump seal, coupling seals, spa pillows and/or cover.

For any warranty service required, please call the Certified Pacific Spas dealer where you purchased the spa.

BEFORE CONFIRMING A SERVICE APPOINTMENT:

Have the serial number and model of your spa (located on the silver registration plate on the front of the spa) at hand with your date of purchase and store receipt.

It will be necessary to confirm that the electrical installation is in accordance with the Canadian Electric Code Part 1. Please be ready to supply the name and telephone number of the licensed electrician who wired your spa. Please keep your invoice for future reference.

If you need further information, please call Pacific Spas at 1-780-221-7946 or visit our website at www.pacificspas.ca.

2021 LIMITED WARRANTY

This Limited Warranty is extended to the original purchaser of a spa from Pacific Spas, manufactured after 01 February 2020 and installed in North America.

STRUCTURE	Warranted against defects in the spa shell causing water loss due to defects in workmanship and/or materials.	Lifetime from the original date of sale.
SHELL / SURFACE	Warranted against blistering or delaminating of the interior spa surface due to defects in workmanship and/or materials.	Three (3) years from the original date of sale or an additional six (6) months from the date of manufacture.
PLUMBING	Plumbing components are warranted against water loss due to defects in workmanship.	Three (3) years from the original date of sale or an additional six (6) months from the date of manufacture.
EQUIPMENT	Electrical equipment components (specifically pumps, heater, keypad and control system) are warranted against malfunction due to defects in workmanship and/or materials.	Three (3) years from the original date of sale or an additional six (6) months from the date of manufacture.
RAINBOW LIGHTING SYSTEM		One (1) year.
LED LIGHTS		One (1) year.
PUMP SEALS		One (1) year.

Warranties for Other Components

Fuses, all surface finishes, spa base and filter cartridge are warranted to be free of defects in materials and/or workmanship at the time of delivery only. Headrests and filter lids are warranted to be free of defects for 90 days component replacement from the date of sale. Pump seals are warranted for one (1) year component and labour replacement. Plastic components, jets, diverter and other external valves are warranted against malfunction due to defects in workmanship and materials for three (3) years component replacement from the date of sale. Other factory-installed components including, but not limited to, stereo components (radio, speakers, subwoofer) UV and ozone systems are warranted against malfunction due to defects in workmanship and materials for one (1) year component replacement and 90 days replacement labour. Bromine Generator Systems are warranted for three (3) years component replacement and one (1) year labour replacement. Spa covers are warranted to be free of defects in materials and/or workmanship for two (2) years component repair or replacement. In.touch and in.touch 2 systems are warranted for one (1) year component replacement. Synthetic skirting/cabinets are warranted to maintain their structural integrity for two (2) years component and labour replacement from the original date of sale.

Performance

To obtain service in the event of a defect covered by this Limited Warranty, notify your Pacific Spa dealer as soon as possible and use all reasonable means to protect the spa from further damage. Sub-zero ambient temperatures require the spa to be inspected at least once every 24 hours. Upon the presentation of a valid proof of purchase, a designated service representative will correct the defect subject to the terms and conditions contained within the Pacific Spas Reimbursement Schedule and this Limited Warranty. Providing access to the spa, howsoever occasioned, is fully borne by the spa owner. A reasonable mileage charge may be applied. Repairs are based on restoring structural integrity and functionality to the spa and may not include aesthetic restoration. If Pacific Spas Manufacturing Ltd (the Manufacturer) determines that repair of the defect is not feasible, it reserves the right to provide a replacement spa instead, equal in value to the purchase price of the original spa, less all applicable depreciation. In the event of replacement, all costs associated with removal of the original spa, shipping, delivery and installation of the replacement spa are borne by the end user. Replacement spas carry the balance of the original spa's warranty.

Warranty Limitations

This Limited Warranty is void if: (a) The Manufacturer, or its designated representative, determines that the spa has been subjected to alteration, neglect, misuse or abuse or freight damage caused by the common carrier. (b) Any repairs have been attempted by anyone other than a designated representative. (c) The failure is caused by accident, an "Act of God" or other cause beyond the control of the Manufacturer. Neglect, misuse and/or abuse including any installation, operation or maintenance of the spa other than in accordance with the instructions contained in the Owner's Manual provided with the spa; including but not limited to the FAILURE TO MAINTAIN PROPER WATER CHEMISTRY AND CHEMICAL BALANCE and the use of abrasive or improper cleaners. (d) The spa has not been registered with the Manufacturer within 90 days of the date of purchase. This Limited Warranty does not provide coverage for any item attached to or installed on the spa after the date of manufacture or for gaining access to any component for repair or replacement. Residential spas used in commercial applications are excluded from any warranty whatsoever. The spa owner accepts liability for repair work performed by anyone other than the Manufacturer or its designated representative.

Limitations

The Manufacturer disclaims all warranties, expressed or implied, in fact or in law, to the extent allowed by your State / Province's law, including the warranty of merchantability and fitness for use, except as stated specifically herein. The Manufacturer or its designated representative must perform all warranty service. No agent, dealer, distributor, service company or other party is authorized to change, modify or extend the terms of this Limited Warranty in any manner whatsoever. The Manufacturer will not be responsible for any statements or representations made in any form that go beyond, are broader than, or are inconsistent with any authorized literature or specifications furnished by Pacific Spas.

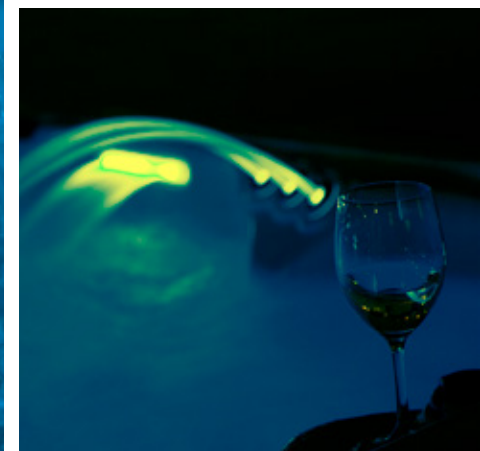
Disclaimers

The Manufacturer and its representatives shall not be liable for any injury, loss, cost or other damage, whether incidental or consequential, arising out of any defect covered by this Limited Warranty, including without limitation, loss of use of the spa and cost for removal of defective product even if the Manufacturer was advised of the possibility of damage. The liability of the Manufacturer under this Limited Warranty, if any, shall not exceed the original amount paid for the defective product. Coverage under this Limited Warranty shall commence from the lesser of the original date of sale or an additional year from the date of manufacture and the duration of such coverage shall not extend for any reason whatsoever beyond the stated time periods. These disclaimers shall be equally applicable to any service provided by the Manufacturer or its designated representatives.

Legal Rights

This Limited Warranty gives you specific legal rights. You may also have other rights that vary from Province / State to Province / State. Some Province / States do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you.

Contact your local dealer/supplier for further warranty details or Pacific Spas Manufacturing Ltd at support@pacificspas.ca.





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