LACUS
INNOVATIONS

SPA **OPERATOR'S GUIDE**

10-2026

Installation /// Operation ///
Maintenance /// Safety Information

⚠ NOTE!

SAVE THESE IMPORTANT SAFETY INSTRUCTIONS
This manual contains important safety, operating, and installation instructions.

READ BEFORE INSTALLING OR OPERATING THE SPA.

OWNER'S INFORMATION

DEALER IMPRINT AREA

/// DEAR SPA OWNER ///

Congratulations on your purchase of a new spa. You now possess the ultimate passport to tranquility - a daily vacation at home!

Many hours of research have gone into the design of your spa to ensure the ultimate in hydrotherapy and relaxation. Only the highest quality components have been used to ensure years of trouble free operation. Your comfort and enjoyment have been designed into your spa from the start.

Please take the time to read through this Operator's Guide. In it you will find guidelines on caring for your spa, a complete explanation of the controls, safety instructions, a trouble-shooting section, and lots more.

Thank you for your business and your confidence in our company.
We look forward to serving you!

This Operator's Guide utilizes the following symbols to emphasize particular information. The safety alert symbol indicates a potential hazard.

⚠ WARNING

⚠ CAUTION

⚠ NOTE

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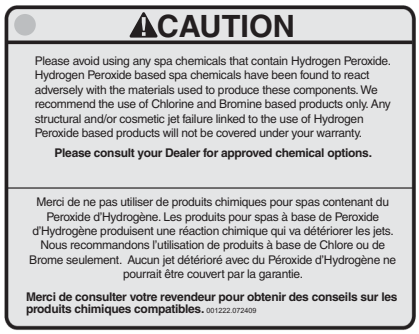
WARNING / CAUTION TAGS DIAGRAM

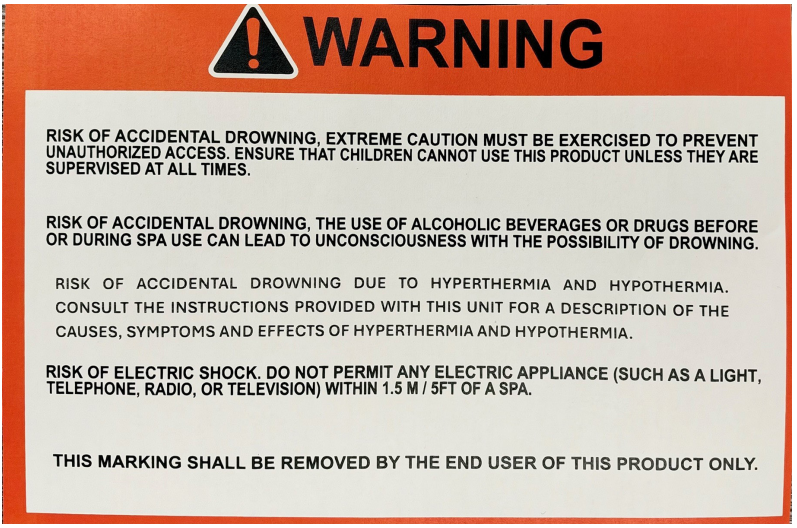


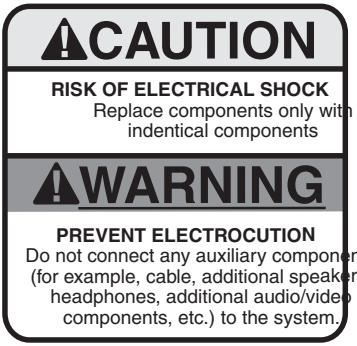






WARNING / CAUTION TAGS DIAGRAM









IMPORTANT
SAFETY
INSTRUCTIONS

/// SAVE THESE INSTRUCTIONS ///

WARNING !
RISK OF ACCIDENTAL DROWNING, EXTREME CAUTION MUST BE EXERCISED TO PREVENT UNAUTHORIZED ACCESS. ENSURE THAT CHILDREN CANNOT USE THIS PRODUCT UNLESS THEY ARE SUPERVISED AT ALL TIMES.

RISK OF ACCIDENTAL DROWNING, THE USE OF ALCOHOLIC BEVERAGES OR DRUGS BEFORE OR DURING SPA USE CAN LEAD TO UNCONSCIOUSNESS WITH THE POSSIBILITY OF DROWNING.

RISK OF ACCIDENTAL DROWNING DUE TO HYPERTHERMIA AND HYPOTHERMIA. CONSULT THE INSTRUCTIONS PROVIDED WITH THIS UNIT FOR A DESCRIPTION OF THE CAUSES, SYMPTOMS AND EFFETCS OF HYPERTHERMIA AND HYPOTHERMIA.

RISK OF ELECTRIC SHOCK. DO NOT PERMIT ANY ELECTRIC APPLIANCE (SUCH AS A LIGHT, TELEPHONE, RADIO OR TELEVISION) WITHING 1.5 M / 5 FT OF A SPA.

THIS MARKING SHALL BE REMOVED BY THE END USER OF THIS PRODUCT ONLY.

SAFETY INSTRUCTIONS

/// SAVE THESE INSTRUCTIONS ///

Included with your new spa is a safety sign. The sign is for you and your guest's protection and is suitable for outdoor use in wet locations. The sign should be placed in a location visible to all users of the spa.

Please take time to point out the physical location of the safety sign and the importance of the safety precautions displayed on the safety sign to all of your guests. Remember, your safety and the safety of anyone who enjoys the use of your spa is our utmost concern.

The sign should be mounted with screws or another type of permanent fastener. Additional or replacement signs can be obtained from your dealer or direct from our factory.



IMPORTANT
SAFETY
INSTRUCTIONS

/// SAVE THESE INSTRUCTIONS ///

WARNING !

REDUCE THE RISK OF ELECTROCUTION

1 – NEVER PLACE AN ELECTRIC APPLIANCE WITHIN 5 FEET (1,5 M) OF SPA.

REDUCE THE RISK OF CHILD DROWNING.

1 – SUPERVISE CHILDREN AT ALL TIMES.
2 – ATTACH SPA COVER AFTER EACH USE.

REDUCE THE RISK OF OVERHEATING AND EFFECTS OF COLD WATER IMMERSION.

1 – CHECK WITH A DOCTOR BEFORE USE IF PREGNANT, DIABETIC, IN POOR HEALTH OR UNDER MEDICAL CARE.
2 – EXIT IMMEDIATELY IF UNCONFORTABLE, DIZZY, SHIVERING, OR SLEEPY. SPA HEAT CAN CAUSE HYPERTHERMIA AND UNCONSCIOUSNESS. SUDDEN OR PROLONGED EXPOSURE TO COLD WATER UMMERSION CAN CAUSE HYPOTHERMIA AND RELATED INJURIES.
3 – SPA HEAT OR IMMERSION IN COLD WATER IN CONJUCTION WITH ALCOHOL, DRUGS OR MEDICATION CAN CAUSE UNCINSCIOUSNESS.

WHEN PREGNANT, SOAKING IN HOT/COLD WATER FOR LONG PERIODS CAN HARM YOUR FETUS. MEASURE WATER TEMPERATURE BEFORE ENTERING.

1 – DO NOT ENTER SPA IF WATER IS HOTTER THAN 100°F (38°C).
2 – DO NOT STAY IN SPA FOR LONGER THAN 10 MINUTES.

THIS MARKING IS TO BE REMOVED ONLY BY THE OWNER AFTER SAFETY SIGN IS INSTALLED.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING!

When installing and operating this electrical equipment, basic safety precautions must be followed, including the following:

/// READ AND FOLLOW ALL INSTRUCTIONS ///

Warning

To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

Danger – risk of child drowning

Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the spa unless they are supervised at all times.

Note : A wire connector is provided on this unit to connect a wire of a minimum No. 6 AWG minimum (48 AMP) or minimum No. 8 AWG (32 AMP), 75˚C copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduct within 5 feet (1.52 m) of the unit.

Danger – risk of electric shock

Install spa at least five (5) feet (1.52 m) from all metal surfaces. A spa may be installed within five (5) feet (1.52 m) of metal surfaces if, in accordance with the National Electrical Code / IEC, each metal surface is permanently connected by a minimum No. 6 AWG (6 mm) (48 AMP) or minimum No. 8 AWG (8 mm) (32 AMP) minimum 75˚C copper conductor attached to the wire connector on the terminal box.

Refer to the manufacturer marking for AMP required.

A grounding lug is provided for this purpose.

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.

Note : 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.

Note : The spa or swim spa manufacturer shall provide instructions that the spa or swim spa shall be secured to protect against unauthorized access per local codes.

Note : The spa or swim spa manufacturer shall provide instructions that the spa or swim spa water shall be tested and treated in accordance with local codes.

IMPORTANT SAFETY INSTRUCTIONS

/// READ AND FOLLOW ALL INSTRUCTIONS ///

Danger
To reduce the risk of injury to persons, do not remove the suction grate. Suction through drains and skimmers is powerful when the jets in the spa are in use. Damaged covers can be hazardous to small children and adults with long hair. Should any part of the body be drawn into these fittings, turn off the spa immediately. As a precaution, long hair should not be allowed to float in the spa.

Warning
Install the spa so that water can be easily drained out of the compartment containing electrical components so as not to damage equipment. Also, when installing spa, allow at least 2 feet of clearance around the perimeter of the spa to provide enough room to access for servicing. Contact your local dealer for their specific requirements.

To reduce the risk of injury

- Never allow anyone to dive into a spa.
- Always enter feet first.
- Always enter and exit a spa slowly.
- Do not use the spa alone.
- Before entering the spa, always measure the water temperature with an accurate thermometer. Tolerance of water temperature regulating devices can vary as much as plus/minus 5˚ F (3˚ C).
- Persons suffering from obesity or with a medical history of heart disease, diabetes, high or low blood pressure or circulatory system problems should consult a physician before using a spa..
- Since excessive water temperatures have a high potential for causing fetal damage during early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 100˚ F (38˚ C).
- Excessive water temperature can be dangerous. The water in the spa should never exceed 104˚ F (40˚ C) or minimum of 32˚ F (0˚ C).
- Water temperatures between 100˚ F (38˚ C) and 104˚ F (40˚ C) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 minutes) and for young children. Long exposures at higher temperatures can result in hyperthermia
- The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness with the possibility of drowning.

- Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure and circulation.
- Children's body temperature can increase more rapidly than adults in the same water with elevated temperatures (above 99˚ F). Children should spend less time in water above body temperature than adults.

WARNING: PROLONGED SUBMERSION OR EXPSURE IN COLD WATER CAN CAUSE HYPOTHERMIA OR COULD OTHERWISE BE INJURIOUS TO YOUR HEALTH

WARNING: DO NOT ADD ANY SUBSTANCES TO THE TUB THAT MAY LOWER THE FREEZING POINT OF THE WATER/LIQUID, BELOW 0 °C.

WARNING: USE ONLY AS DESCRIBED IN THIS MANUAL. USE ONLY EXTERNAL ACCESSORIES, SUCH AS HEATING AND COOLING SYSTEMS, RECOMMENDED BY THE MANUFACTURER AND APPROVED FOR THE APPLICATION. THE USE OF OTHER ACCESSORIES MAY CAUSE FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

WARNING: RISK OF ACCIDENTAL DROWNING DUE TO HYPERTHERMIA AND HYPOTHERMIA. CONSULT THE INSTRUCTIONS PROVIDED WITH THIS UNIT FOR A DESCRIPTION OF THE CAUSES, SYMPTOMS, AND EFFECTS OF HYPERTHERMIA AND HYPOTHERMIA.

WARNING
- The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
- Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

REMINDER
A safe temperature for swimming or aquatic exercise is around 80˚ (27° C).

NOTE – People with infections or sores should not use the spa. Warm and hot water temperatures may allow the growth of infectious bacteria if not properly disinfected.

DANGER/// RISK OF ELECTRIC SHOCK
Do not permit any electric appliance, such as a light, telephone, radio or television within five (5) feet (1.52 m) of the spa. Never operate any electrical appliances from inside the spa

IMPORTANT SAFETY INSTRUCTIONS

Warning
The use of alcohol, drugs or medication can greatly increase the risk of hyperthermia in spas.

- The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
- Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

⚠ WARNING!

HYPERTHERMIA
Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6˚ F.

THE SYMPTONS OF HYPERTHERMIA INCLUDE:
Dizziness • Fainting • Drowsiness • Lethargy
• Increase in internal body temperature

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 resulting in potential of drowning

Reminder
A safe temperature for swimming or aquatic exercise is around 80˚ (27º C).
NOTE – People with infections or sores should not use the spa. Warm and hot water temperatures may allow the growth of infectious bacteria if not properly disinfected.

Danger /// risk of electric shock
Do not permit any electric appliance, such as a light, telephone, radio or television within five (5) feet (1.52 m) of the spa. Never operate any electrical appliances from inside the spa or while wet

IMPORTANT SAFETY INSTRUCTIONS

Warning /// risk of suffocation
If this spa is equipped with a heater, it is intended for outdoor use only, unless proper ventilation can be provided for an indoor installation.

Caution /// risk of electric shock
Do not leave the audio compartment open.

Caution /// risk of electric shock
Replace components only with identical components.

Warning /// prevent electrocution
Do not connect any auxiliary components (for example, additional speaker, headphones, additional audio/video components etc.) to the system.
These units are not provided with an outdoor antenna.

Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to your qualified spa tech.

If the power supply/supply cord(s) are damaged, if water is entering the speaker, audio compartment, or any other component in the electrical equipment compartment area, the protective shield is showing signs of deterioration, or there are signs of other potentially hazardous damage to the unit, turn off the circuit breaker from the wall and contact or refer to your service technician.

The unit should be subject to periodic routine maintenance once every quarter to make sure that the unit is operating properly.

Danger /// risk of electric shock
Do not permit any electric appliance, such as a light, telephone, radio or television within five (5) (1.52 m) feet of the spa.

A green colored terminal or a terminal marked G, GR. Ground, Grounding or the symbol shown in Figure 14.1 of UL1563 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 supplying this equipment.

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. 8 AWG. or 6 AWG (Refer to manufacturer marking).

IMPORTANT SAFETY INSTRUCTIONS

All field-installed metal components such as rails, ladders, drains or other similar hardware within 3 meters of the spa shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG or 8 AWG (refer to manufacturer marking).

Caution /// Test the ground fault circuit interrupter before each use of the spa.

Caution /// Read the instruction manual.

Caution /// Adequate drainage must be provided if the equipment is to be installed in a pit, or equivalent.

Warning /// Water temperature in excess of 100.4ºf (38ºc) may be injurious to your health.

Warning /// Disconnect the electric power before servicing.

Warning /// Children should not use spas without adult supervision.

Warning /// Do not use spas or hot tubs unless all suction guards are installed to prevent body and hair entrapment.

Warning /// People using medications and/or having an adverse medical history should consult a physician before using a spa.

Warning /// People with infectious diseases should not use a spa.

Warning /// To avoid injury, exercise care when entering or exiting the spa or hot tub.

Warning /// Do not use drugs or alcohol before or during the use of a spa or hot tub to avoid unconsciousness and possible drowning.

Warning /// Pregnant or possibly pregnant women should consult a physician before using a spa.

Warning /// Water temperature in excess of 100ºF (38ºC) may be injurious to your health.

Warning /// Before entering the spa measure the water temperature with an accurate thermometer.

Warning /// Do not use a spa or hot tub immediately following strenuous exercise.

Warning /// Prolonged immersion in a spa or hot tub may be injurious to your health.

Warning /// Prolonged submersion or exposure in cold water can cause hypothermia or could otherwise be injurious to your health.

Warning /// Do not add any substances to the tub that may lower the freezing point of the water / liquid bellow 0ºC.

Warning /// Use only as described in this manual. Use only external accessories, such as heating and cooling systems, recommended by the manufacturer and approved for the application. The use of other accessories may cause fire, electric shock, or injury to persons.

IMPORTANT SAFETY INSTRUCTIONS

Warning /// Do not permit electric appliances (such as a light, telephone, radio, or television) within 1.5 M of this spa or hot tub.

Caution /// Maintain water chemistry in accordance with manufacturer's instruction.

HYPERTHERMIA occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). The symptoms of hyperthermia include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include:

(a) unawareness of impending hazard 15

(b) failure to perceive heat

(c) failure to recognize the need to exit spa

(d) physical inability to exit spa

(e) fetal damage in pregnant women

(f) unconsciousness and danger of drowning

WARNING /// THE USE OF ALCOHOL OR DRUGS CAN GREATLY INCREASE THE RISK OF FATAL HYPERTHERMIA IN SPAS.

WARNING /// THIS COLD SPA ENABLES THE USER TO DETERMINE THE TEMPERATURE AND DURATION FOR WHICH THEY ARE IMMERSED IN THE SPA. BEFORE USING A COLD SPA, YOU SHOULD ALWAYS ASK A QUALIFIED PROFESSIONAL IF USE OF THIS SPA IS SAFE AND APPROPRIATE FOR YOU.

BASIC INFORMATION

Congratulations on the purchase of your new spa. Our goal is to provide you with a warm and relaxing spa which incorporates a soothing water massage. In order to maximize the pleasure of your spa, you will need to understand how it works.

The following operating and maintenance instructions are very important and must be followed carefully. With proper care and maintenance your spa will provide you with years of satisfaction with minimum effort.

- The pump and heater should be operated a minimum of two hours per day for cleaning and heating.
- The length of time required to heat your spa to the desired water temperature will vary, depending on the air temperature, season, and wind velocity. We highly recommend using a vinyl hard cover to minimize heat loss and to protect your spa when not in use. Covers are available from your local spa dealer.
- The replaceable filter cartridge is trouble free and easy to clean. A routine cleaning is the best practice. Make sure the pump is off, then remove the cartridge. Wash it off using a water hose with a pressure nozzle and then reassemble. This should be done on a monthly basis.
- Keep the spa water level 2" (5 cm) above the skimmer. Never allow the water level to drop below the bottom of the skimmer opening. If the water level is too low, the skimmer will allow air into the water lines of the pump, causing it to lose its prime (waterflow). Running the pump without water flow will damage the pump seal assembly and could possibly result in further equipment damage, which will not be covered under warranty.
- If your spa has a natural wood skirt or if you purchased a gazebo, we recommend applying a wood sealer of your choice (always follow application instructions) to protect the finish. Repeat as directions suggest.
- You should clean your spa at least every 3-4 months. Drain the spa water and use a gentle liquid cleanser. DO NOT use hard brushes or abrasive cleaners. Fill with regular tap water and chemically treat the water for a clean and healthy spa.
- The spa water shall be tested and treated in accordance with local codes.

BASIC INFORMATION

⚠ CAUTION!

Cover must be kept on spa at all times when spa is drained or winterized. Direct exposure to sunlight can damage plastic parts and interior surface, jets, or any interior components. Damage caused by exposure to the sun will not be covered under warranty.

⚠ WARNING!

Do not use soft water. It may harm your acrylic.

NORTH AMERICAN ELECTRICAL **INSTALLATION REQUIREMENT'S**

/// HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS ///

Electrical connections made improperly, or the use of wire incorrectly sized, may continually blow fuses in the electrical equipment box, may damage the internal electrical controls and components. Any of these conditions may be unsafe and will void the warranty.

It is the responsibility of the spa owner to ensure that electrical connections are made by a qualified electrician in accordance with the National Electrical code and any local and state electrical codes in force at the time of installation.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 60Hz, alternating current only, 240 volts are required. Make sure that power is not applied while performing electrical installation. A copper bonding lug has been provided

On the electrical equipment pack to allow connection to local ground points. The ground wire must be at least 6 AWG or 8 AWG copper wire and must be connected securely to a grounded metal surface such as a cold water pipe. The electrical supply for your spa must include a 60 AMP (for 48 AMP) switch or circuit breaker to open all non-grounded supply conductors to comply with section 422-20 of the National Electrical Code (or a 40 AMP circuit breaker for 32 AMP on selected spas – refer to manufacturer marking). This disconnect must be readily accessible to the spas occupants, but installed at least five feet from the spa but within sight. A ground fault circuit interrupter (GFCI) must be used to comply with section 680-42 of the National Electrical Code. A GFCI is designed to automatically shut off power to a piece of equipment when a ground fault is detected.

Power hook-up to the spa must be a 240 volts 4 wire plus ground (6 AWG copper for 48 AMP) – (8 AWG copper for 32 AMP).

Route the cable into the equipment area for final hookup to terminals inside the control panel. To install the wiring for the in.ye spa control, you'll need a Phillips screwdriver and a flat screwdriver. Loosen the 2 screws of the Spa Pack door and open it. Remove 5 1/2" of cable insulation, Strip away 1" of each wire insulation, Pull the cable through the cutout of the box and secure it with a strain relief (1" NPT strain relief; hole diameter: 1.335"). Make sure that only the uncut sheathing is clamped at this opening. Push the color-coded wires into the terminals as indicated on the sticker and use the flat screwdriver to tighten the screws on the terminals. After making sure wire connections are secure, push them back into the box and close the door. Tighten the 2 screws of the Spa Pack door. Connect the bonding conductor to the bonding lug on the front of the in.ye Spa Pack (a grounded electrode conductor shall be used to connect the equipment grounding conductors). The spa must be hooked up to a "dedicated" 240 volt, 60 amp breaker and GFCI (48 AMP) or 40 amp breaker and GFCI (32 AMP).

The term "dedicated" means the electrical circuit for the spa is not being used for any other electrical items (patio lights, appliances, garage circuits, etc.) If the spa is connected to a non-dedicated circuit, overloading will result in "nuisance tripping", which requires resetting of the breaker switch located in the house main electrical panel.

Product Configuration Identification :
Refer to manufacturer marking :

120 V GFCI Cord connected – 15 AMP GFCI Plug In.
The spa can be convertible to 240 V permanently connected – refer 120 V spa connection. Convertible spa is equipped with one pump, one heater, one spa control system, one spa control panel and one ozonator (optional).

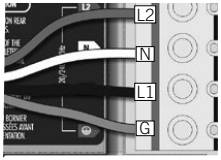
240 V 32 AMP permanently connected
Spa is equipped with one pump, one heater, one spa control system, one spa control panel and one ozonator (optional).

240 V 48 AMP permanently connected
Spa is equipped with two or tree pumps, one heater, one spa control system, one spa control panel and one blower (optional) and one ozonator (optional).

(YE) **WIRING CONNECTIONS**

Electrical wiring: North Amercian model in.ye and in.yt

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



240 V (4 wires)

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

After making sure wires are securley 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).

⚠ NOTE!

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

EUROPEAN **ELECTRICAL INSTALLATION REQUIREMENTS**

/// HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS ///

Electrical connections made improperly, or the use of wire incorrectly sized, may continually blow fuses in the electrical equipment box, may damage the internal electrical controls and components. Any of these conditions may be unsafe and will void the warranty.

It is the responsibility of the spa owner to ensure that electrical connections are made by a qualified electrician in accordance with the National Electrical code / IEC and any local and state electrical codes in force at the time of installation.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 50Hz, alternating current only, 230 volts are required. Make sure that power is not applied while performing electrical installation. A copper bonding lug has been provided on the electrical equipment pack to allow connection to local ground points. The ground wire must be at least 10 AWG copper wire and must be connected securely to a grounded metal surface such as a cold water pipe. The electrical supply for your spa must include a 32 AMP switch or circuit breaker to open all non-grounded supply conductors to comply with section 422-20 of the National Electrical code / IEC. This disconnect must be readily accessible to the spas occupants, but installed at least five feet from the spa but within sight. A ground fault circuit interrupter (GFCI) must be used to comply with section 680-42 of the National Electrical code / IEC. A GFCI is designed to automatically shut off power to a piece of equipment when a current fault is detected.

Power hook-up to the spa must be a 230 volt 4 wire plus ground (10 AWG copper) (Where 3 phase power is used).

Route the cable into the equipment area for final hookup to terminals inside the control panel. To install the wiring for the in.ye spa control, you'll need a Phillips screwdriver and a flat screwdriver. Loosen the 2 screws of the Spa Pack door and open it. Remove 5 1/2" of cable insulation. Strip away 1" of each wire insulation. Pull the cable through the cutout of the box and secure it with a strain relief (1" NPT strain relief; hole diameter: 1.335"). Make sure that only the uncut sheathing is clamped at this opening.

Push the color-coded wires into the terminals as indicated on the sticker and use the flat screwdriver to tighten the screws on the terminals. After making sure wire connections are secure, push them back into the box and close the door. Tighten the 2 screws of the Spa Pack door. Connect the bonding conductor to the bonding lug on the front of the in.xe Spa Pack (a grounded electrode conductor shall be used to connect the equipment grounding conductors). The spa must be hooked up to a "dedicated" 230 volt, 32 amp breaker and GFCI.

The term “dedicated” means the electrical circuit for the spa is not being used for any other electrical items (patio lights, appliances, garage circuits, etc.) If the spa is connected to a non-dedicated circuit, overloading will result in “nuisance tripping” which requires resetting of the breaker switch located in the house main electrical panel.

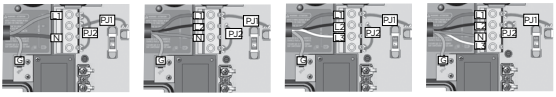
(YE EU) **WIRING CONNECTIONS**

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 color code indicated on the sticker. Use a flat-head screwdriver to tighten the screws on the terminal.

After making sure wires are securley 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).

WIRING CONNECTIONS
GROUND-FAULT CIRCUIT INTERRUPTER (GFCI)

/// FOR UNITS WITH A GFCI ///

WARNING - This product is provided with a ground-fault circuit-interrupter (give location). The GFCI must be tested before each use. With the product operating, open the service door. When the product stops operating, this merely indicates that the door is equipped with an electrical interlock. Next, push the test button on the GFCI and close the service door. The product should not operate. Now open the service door, push the reset button on the GFCI and close the service door. The product should now operate normally. When the product fails to operate in this manner, there is a ground current flowing indicating the possibility of an electric shock. Disconnect the power until the fault has been identified and corrected.

⚠ DANGER!- Risk of injury

READ AND FOLLOW ALL INSTRUCTIONS. SAVE THESE INSTRUCTIONS
For cord-connected / convertible units :
Replace damaged cord immediately.
Do not bury cord.
Connect to a grounded, grounding type receptacle only.
Do not use extension cord to connect GFCI.
Use UL CSA registered outdoor extension cords on GFCI output only.
Use a normal distribution system for 120V/15 AMP 60HZ
GFCI included in your spa is a safety device, don't use it as ON/OFF switch.
Test GFCI frequently and before each use to ensure proper operation.

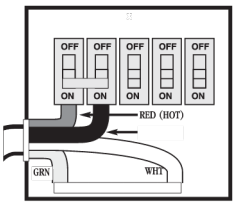
ALL ELECTRICAL WIRING AND CONNECTIONS SHALL BE PERFORMED BY A LICENSED AND CERTIFIED ELECTRICIAN. INSTALLATION OR WIRING CHANGES SHALL NOT BE PERFORMED BY THE HOMEOWNER.
WARNING: DISCONNECT ALL POWER SUPPLIES TO THE SPA BEFORE PERFORMING ANY WIRING CHANGES, MAINTENANCE, OR SERVICE WORK.

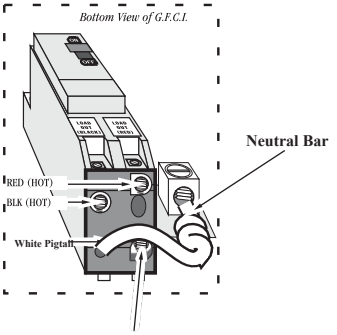
SPA WIRING DIAGRAM
(YE CLASS)

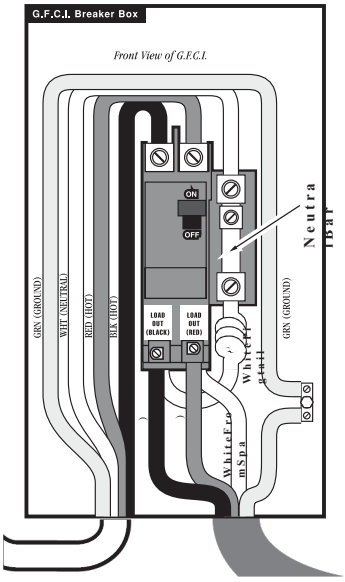
/// THE DIAGRAM INTENDED FOR THE YE CLASS PACK SYSTEM ///

Wiring Requirements
- 2-Hots, 1-Neutral, 1-Isolated Ground
- 4 Wire #6 AWG minimum 75˚C copper conductor (for 48 AMP)
- 4 Wire #8 AWG minimum 75˚C copper conductor (for 32 AMP)
- 15 AMP GFCI PLUG IN for 120V – 60 HZ

Factory Recommended G.F.C.I. Load Center Wiring
The white neutral wire from the back of the GFCI MUST be connected to an incoming line neutral. The internal mechanism of the GFCI requires this neutral connection. The GFCI will not work without it. A disconnecting means shall be provided and located within sign of the equipment and at least 5 ft (1,52 m) from the inside walls of the spa or hot tub, This requirement applies to convertible units and permanently connected units that are not provided with an integral disconnecting switch.







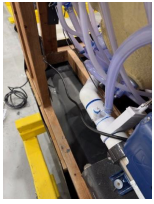
White cable to spa

For spa wiring configuration please refer to page 19 or equipment pack for detailed information

⚠ NOTE!

Connection order may vary by pack model, please refer to equipment pack panel for proper connection order.

Stain relief installed on the outer enclosure

<table>
<tr>
<td>
Opening size 1’’ diameter – in the left spa corner in the bottom when in front of the entry panel (spa pack)</td>
<td>
GFCI wire</td>
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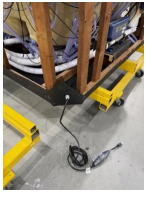
<td></td>
<td>GFCI wire 14/3
9 mm diameter
Stain relief
Lapp Group S1116 Cable Gland, PG-16, Range 0.354-0.551", Polyamide, Gray or black, SKINTOP Series
UL listed</td>
</tr>
</table>

120 Volt Electrical Installation

(Plug & Play models only)

Always follow applicable local, state and federal codes and guidelines

- On existing dedicated*electrical service, a 15A breaker will work with no appliances/ accessories on that line.
- On a new electrical service, usage of a 20A breaker on a dedicated* line is recommended with no other applicances/accessories on that line.
- GFCI-protected cord-and-plug connections may not use a cord longer than 15 feet (4,6m) and must be plugged into a dedicated 15A or 20A outlet. (NEC 680,42(A))
- **Do not** use extensions cords! 25
- If spa is outside, use a weatherproof-covered receptacle.
- The receptacle shall be located not less than 5 feet (1,5m) from and not exceeding 10 feet (3,0m) from the spa's inside wall. (NEC 680,43 (A))
- Do not bury the power cord. If your cord becomes damaged, replace it before the next usage.
- All 120V spas come with a GFCI cord installed.
- Test the GFCI plug prior to first use and every 3 months when the spa is powered. To test the GFCI plug fonction, follow these instructions. (The spa should already be plugged in and operational.)
  1. Press the Test button on the GFCI. The GFCI will trip, and hte spa will stop operatiing.
  2. Press the RESET button on the GFCI. The GFCI will reset, and the spa will turn back on. The spa is now safe to use.
- If the GFCI trips while the spa is in use, press the RESET button. IF the GFCI does not reset, unplug the spa and contact customer service. DO NOT USE THE SPA!





***PLUGGING THE PROVIDED GFCI CORD INTO A GFCI OUTLET MAY CAUSE NUISANCE TRIPS, SO IT IS RECOMMENDED THAT ONLY ONE INLINE GFCI IS PRESENT IN THE SPA CIRCUIT. IF A GFCI OUTLET IS PRESENT, REPLACING IT WITH A STANDARD OUTLET CAN PREVENT THESE NUISANCE TRIPS. CHECK WITH YOUR LOCAL CODE OFFICIALS ON OUTDOOR OUTLET REQUIREMENTS.**

***IF USING THE STANDARD 120V SERVICE, YOU MUST USE A DEDICATED LINE, WHICH MEANS THAT THERE CANNOT BE ANY OTHER HOUSEHOLD ITEMS CONNECTED TO THE CIRCUIT OR OUTLET AT ALL! HAVING ANY OTHER ELECTRICAL APPLIANCES AT ALL ON THIS CIRCUIT WHILE THE SPA IS RUNNING WILL TRIP THE BREAKER IMMEDIATELY. DO NOT USE ANY TYPE OF EXTENSION CORDS BETWEEN THE SPA AND THE WALL OUTLET, THIS WILL ALSO CAUSE THE BREAKER TO TRIP AND CAN BE A POTENTIAL FIRE HAZARD.**

120 Volts spa connection
Convertible unit 120 V to 240 V

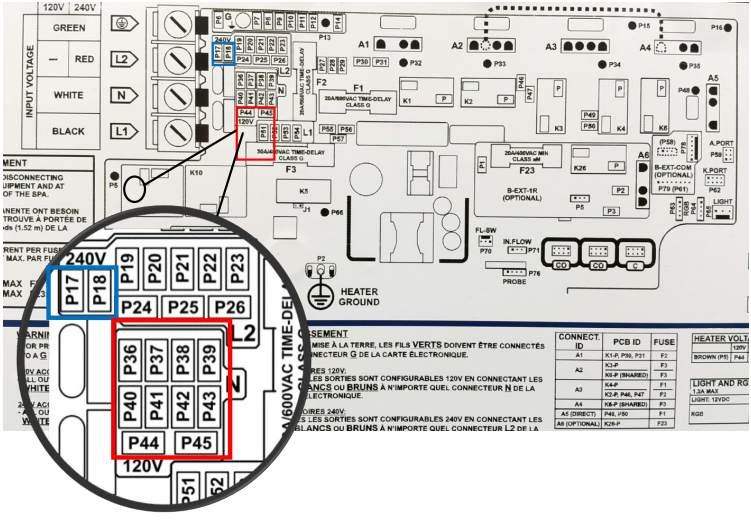
LACUS INNOVATIONS

Factory connections :

When the hot tub is assembled at the factory, the 120 V pump, optional 120 V ozonator and water heater (120 V-240 V) are connected to 120 Volts.

Modification Connexions :

It is possible to convert ONLY the water heater (black wire coming from P5) connected between **P44** by connecting it to **P17** to obtain 240 V.
The 120 V pump and optional 120 V ozonator are NOT compatible with 240 V.



WARNING

ALL ELECTRICAL WIRING AND CONNECTIONS SHALL BE PERFORMED BY A LICENSED AND CERTIFIED ELECTRICIAN. INSTALLATION OR WIRING CHANGES SHALL NOT BE PERFORMED BY THE HOMEOWNER.

DISCONNECT ALL POWER SUPPLIES TO THE SPA BEFORE PERFORMING ANY WIRING CHANGES, MAINTENANCE, OR SERVICE WORK.

A 40 AMP GFCI BREAKER IS REQUIRED FOR CONVERSION.

IT IS RECOMMENDED TO CALL A SPA TECHNICIAN TO MODIFIY THE PROGRAMMING IN ORDER TO CHANGE THE AMPERAGE OF THE SPA FROM 15 AMP TO 32 AMP SO THAT THE WATER HEATER CAN OPERATE AT THE SAME TIME AS THE PUMP.

SET-UP AND DELIVERY GUIDELINES

/// Getting ready for delivery & Set-up of your new spa ///

Surface and Pad Requirements

Your new portable spa must be placed on a uniformly firm, flat, and level surface. A concrete pad 3" (7.5 cm) thick is best. If your spa is located near sprinklers, adjust or cap them so they do not hit the siding of the spa.

Balconies and deck requirements

- Decking must be constructed to support 85 pounds per square foot.
- Balconies must be constructed to meet current state and local codes.
- Gates must be self-closing and self-latching.

Access and Clearance

- Your spa requires 48" (1.22 m) of clearance through gates between house and side fences, and up to 8.5' (2.6 m) overhead clearance depending on the size of the unit.
- The clearance required to turn a corner can be equal to the length of the spa.
- All debris blocking access to the job site must be removed prior to delivery. Any trimming of trees or bushes, removal of debris, leveling of ground or other general maintenance must be done prior to delivery and is the responsibility of the customer.

General Considerations for outdoor installation

Proper planning will increase your total enjoyment factor with your new spa. Listed below are some additional items to consider when planning your installation.

- •How spa will complement landscaping and vice versa.
- •View from inside of spa and view of spa from inside the home.
- •Exposure to sunlight and shading from trees.
- •Privacy
- •Getting to spa from house and return.
- •Proximity to dressing room and bathrooms
- •Storage for spa chemicals
- •Local building codes (if applicable)
- •This product shall be installed in accordance with local codes
- •Power cable.
- •Replace damaged cord immediately.
- •Do not bury cord.
- Connected to a grounded, grounding-type receptacle only.
-

Decking must be constructed to support 85 lbs. per sqft. (38 kgs.)

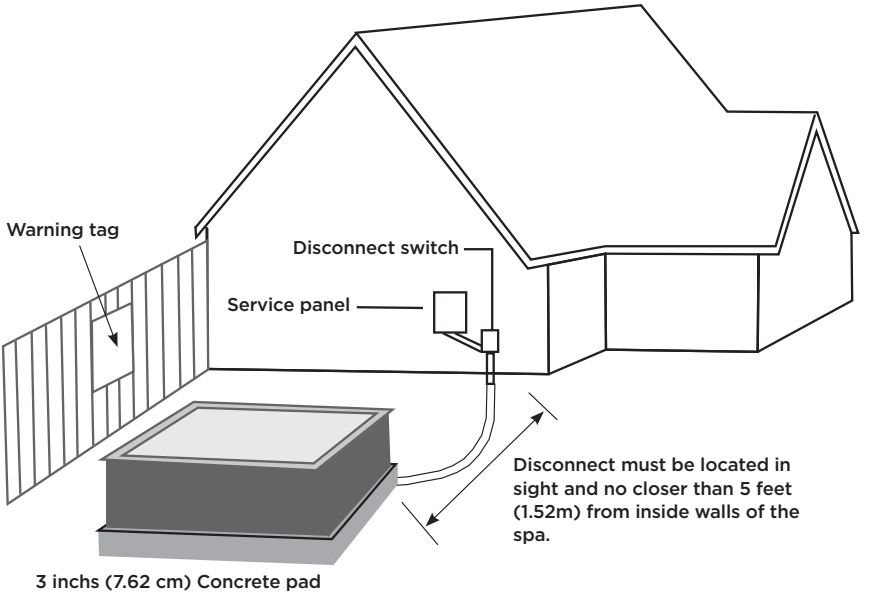
SET-UP AND DELIVERY GUIDELINES

General considerations for indoor installation

Installing your spa indoors creates an extremely different set of considerations. Here again, with proper planning, no matter what room your spa goes in, it will be your favorite room.

- Work with your spa dealer and contractor to insure all local building, electrical and plumbing codes are met.
- Plan for a floor drain to drain off excess water or for draining and cleaning your spa.
- A ventilation fan may be necessary due to high humidity created by your spa.
- Finished material in your spa room should also be capable of with standing increased humidity.
- Excess Water: Normal use of the spa causes large amounts of water to splash out of the unit. Depending on the specific installation, additional provisions may have to be made for proper removal of water.
- Clearance Access : In order to better service your spa, clearance for access to spa must be 38 inches (92 cm) at equipment compartment and 24 inches (61 cm) around the remaining area. Electrical requirements
- (NA) Your 220 Volt spa pack will require a double pole 40 amp or 60 amp dedicated GFCI, ground fault circuit breaker (refer to page 22).
- (EU) Your 230 Volt spa pack will require a dedicated breaker (refer to page 19). CAUTION /// Connect only to a circuit protected by a class A ground fault circuit interrupter.
- Extension cords are not to be used in conjunction with operation of the spa. Low voltage damage could result, which is not covered by warranty.
- If you have any doubts, have your electrical system checked by a licensed electrician.
- Use copper conductors only.
- Care should be taken to ensure adequate ventilation of the indoor space to avoid udesired humidity buildup resulting from spa operation.
- For spa/hot tubs installed indoors, care should be taken to ensure adequate ventilation for the indoor space, to avoid undesired build of humidity due to spa water. For additional information on ventilation/humidity guidelines see the ASHRAE Handbook, HVAC Applications, I-P Edition, 4.5, 4.6, and 4.7.)
- Reference to ASHRAE ventilation recommendations should also be included.

SET-UP AND DELIVERY GUIDELINES



⚠ NOTE!

It is the customer's responsibility to acquire necessary permits and to arrange for installation and hook up of the electrical power by a licensed electrician.

GENERAL PRE-OPERATION INSTRUCTIONS

Priming pump for electrical packs

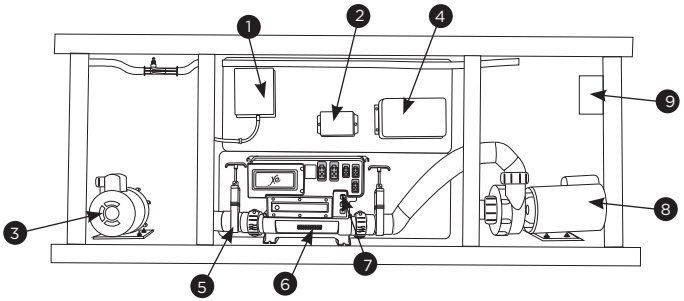
He power pack system is located under the skirting. The equipment can be serviced by simply removing the door. The door is located on the side of the spa where three panels are located, usually on the side of the spa with the lounger, or the side where the topside control panel is located.

It is important to make sure that all of the air is out of the pump(s) before operating. To do this follow procedures below:

- Turn off power at the breaker
- Make sure the gate valves are open
- Fill the spa with water going thru the filter
- Turn the power on at the breaker
- Start the pump on low speed and water should start circulating within one to two minutes. If water does not start circulating, turn pump from low to high until water is flowing.
- If pump still does not prime, please see “Trouble Shooting Guide” located in the back of this manual

⚠ NOTE!

Equipment style and location will vary by model



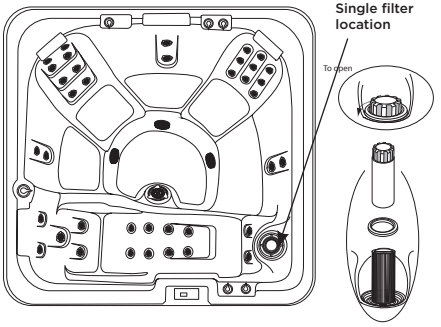
1 Ozonator
2 LED Controller
3 2nd High Performance Pump
4 In stream (optional)
5 Gate Valve
6 Flow Thru Heater
7 Equipment Pack
8 Dual Speed High Performance Pump
9 Blower (optional)

⚠ WARNING!

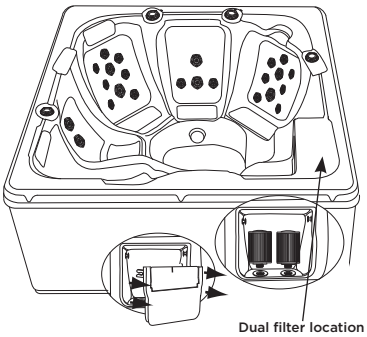
Do not run spa with gate valves closed or run pump with no water circulating in spa for long periods. This could damage the spa equipment.

FILTER LOCATION

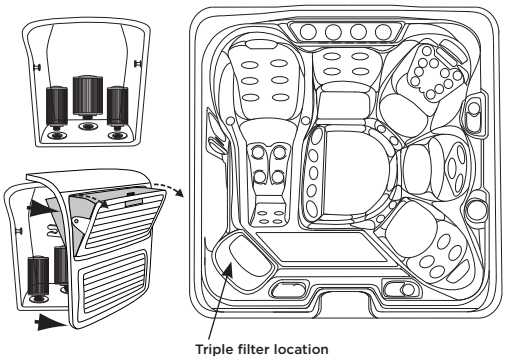
Single filter location



Dual filter location



Triple filter location



NOTE!

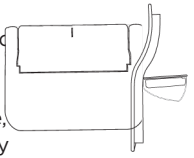
Location will vary by model

FILTER MAINTENANCE

Filtration starts as soon as water flow is steady through the filter. The filter cartridge removes body oil and debris from the spa water, as they can cause flow resistance. A dirty cartridge will decrease flow and may prevent the spa from heating properly. Therefore, regular filter cleaning is essential.

Cleaning and replacing filter cartridge
Your spa filter(s) have been designed for quick and easy maintenance.

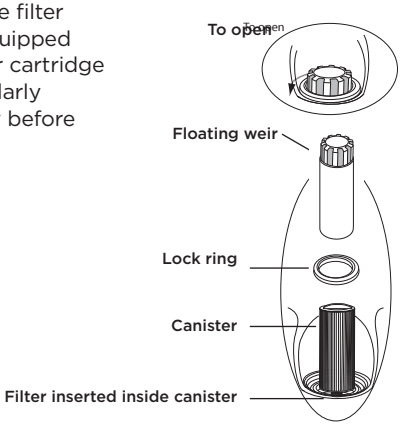
Enclosed Style



- Turn off power at the breaker.
- Open filter door and expose filter cartridge(s) by pulling door to center of spa until door opens completely.
- Unscrew filter cartridge(s) and remove.
- Clean with a garden hose equipped with a high pressure nozzle, in filter cartridge cleaner if necessary, or at every other regularly scheduled cleaning. Rinse filter thoroughly before installing.
- Screw clean cartridge back into filter enclosure and return filter door to original position.

Open Style

- Turn off power at the breaker.
- Remove basket from filter canister. Remove filter cartridge and clean with a garden hose equipped with a high pressure nozzle or soak in filter cartridge cleaner if necessary or at every other regularly scheduled cleaning. Rinse filter thoroughly before installing.
- Place clean cartridge in filter canister.
- Replace basket weir in filter canister.



⚠ NOTE!

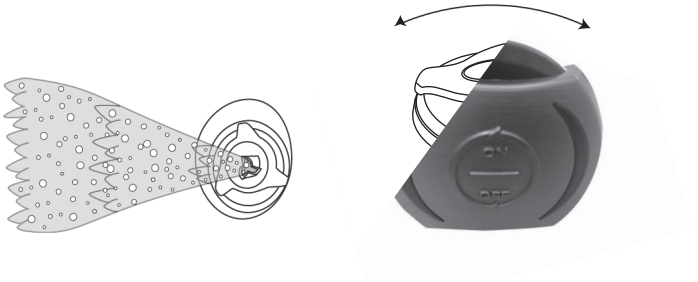
The filter should be inspected and cleaned on a regular basis.

SPA TERMINOLOGY

Jets
Your new spa features a variety of jet styles. All jets regardless of style return the water to the spa. Air is mixed with the water by using the air controls (if equipped) creating a gentle to most vigorous massage.

Water Diverter Valve
The water diverter valve controls the output of the pump(s) water flow to either side of the spa. It will provide even water flow to all jets if left in the half way position. The purpose of this valve is to increase or decrease the output of one side or another for maximum or minimum water flow in case of one or two person usage. This valve is also used to turn the master massage jet on and off, if so equipped. Colors/style may vary from drawing. A water diverter valve is the largest of the valve controls.

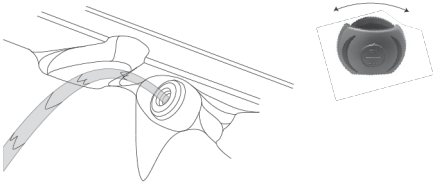
Although all three controls look similar in appearance, they are easily discernible by size. The air control is the smallest, the mini diverter valve is medium in size, and the water diverter valve is the largest .



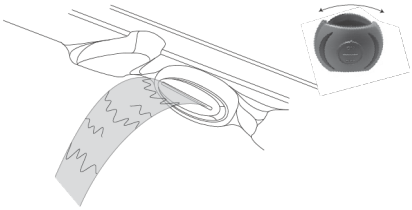
A Mini Diverter Valve, an Air Control, and a Water Diverter Valve.
Locations and design will vary on each spa model.

SPA TERMINOLOGY

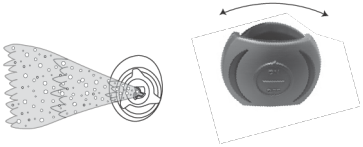
Fountain Jet Controls
If your spa is equipped with optional fountain jets, they are controlled with a fountain jet control. Turning the fountain jet control full counterclockwise will turn the fountain jet on full power, while turning full clockwise will turn the fountain jet off.



Waterfall Controls
If your spa is equipped with waterfalls, they are controlled with a mini diverter valve. Turning the mini diverter valve full clockwise will turn the waterfall on full power, while turning full counterclockwise will turn the waterfall off.

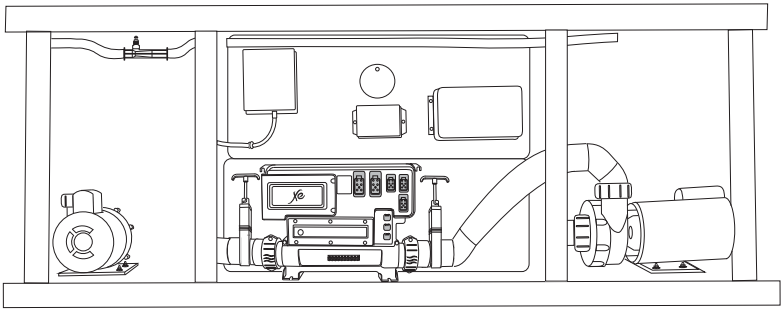


Air Control
Each spa is equipped with air controls (venturies). The purpose of these controls is to regulate the mixture of air and water that flows through the jets. If an optional blower is installed, air is also pushed through the air controls (venturies) for maximum output. If your spa has a master massage jet located in the foot well, the spa will be equipped with an air control specifically for the master massage jet. This third control operates the same as the others. Colors/style may vary from drawing. An air control is the smallest of the valve controls.

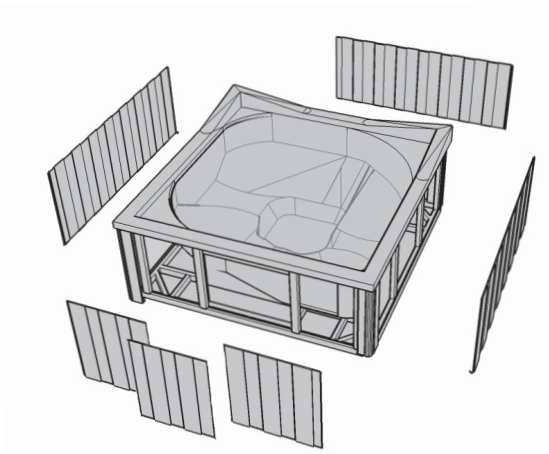


SPA TERMINOLOGY

Equipment access panel
It is located behind the side panel below the topside control panel, this area houses the major components responsible for the spas operation. The components include the pumps, heater, control panel box, ozonator, and led light system (if applicable). Pump and equipment placement may vary by model.



Access panel
These are located on all four sides of the spa. All of the panels are removable should service be required.

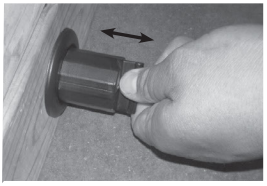


SPA TERMINOLOGY

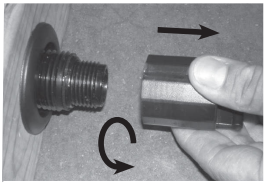
Draining your spa

Because your spa holds a relatively small amount of water, contaminants such as body oil, perspiration, dirt, hair, etc., may become quite concentrated. For this reason, the water should be drained and replaced every three months depending on use.

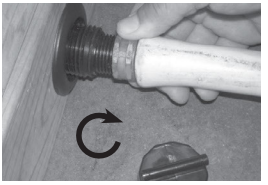
- Turn off power at the breaker.
- When water begins to drain out of the hose, be sure to drain the water to a convenient place.



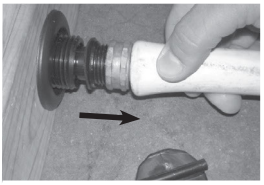
1.
Pull the lever out of the box approximately two (2) inches (5.08 cm) until it clicks into place.



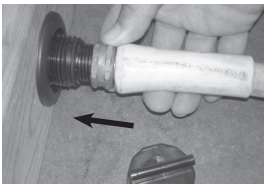
2.
Remove the cap by unscrewing it counterclockwise.



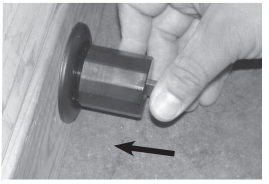
3.
Thread the hose into the spa drain.



4. Pull the hose outward to allow the water to drain. Push inward to block the water.



5. To disconnect the hose, push it in about one-half inch (1.27 cm) to shut off the water flow. Unscrew the hose.



6.
Screw the cap back on and push the inside into the box until it clicks into place

After draining is completed, Wipe down the inside of your spa making sure your surface is dry and free from standing water. We recommend that after draining or cleaning your spa that you put the cover back on. Avoid exposing the acrylic surface to direct sunlight for an extended period of time. Extended exposure can cause surface fading or cracking, which could void the acrylic warranty.

⚠ NOTE!

Be sure that hose is on a downward grade to properly drain spa.

SPA TERMINOLOGY

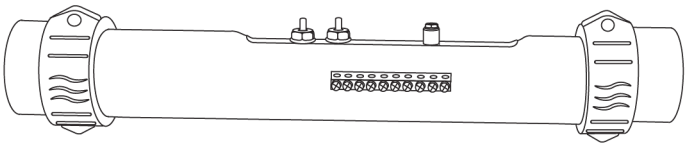
Spa Light
Your spa light is designed for safety and is located in the interior wall of your spa. The on/off switch is located on the topside control panel.



OR



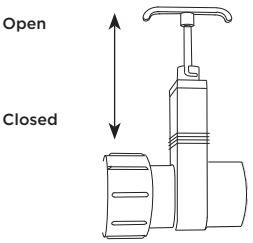
Spa heater
This element is an electric heater housed in a stainless steel tube. It is thermostatically controlled and equipped with a high-limit temperature safety shut-off sensor. The high-limit sensor cannot be reset until the temperature within the heater assembly drops several degrees below the shut-off temperature of 100˚ (º38 C) (varies by model). Should the high-limit switch trip repeatedly, contact your dealer or qualified service representative to diagnose the problem.



YE/YT – PACK

SPA TERMINOLOGY

Gate valves
Are installed for shut off/on water supply from heater or pump for service. For normal spa operation valves should be in the open position (handle extended is open).



Main Pump
This produces water flow through heater and main jets. Also used for filtration. Can be controlled as desired by pressing the pump or pump 1 button on your topside control panel. Refer to quick reference card for filtration frequency and duration.

Secondary Pump (on select models)
This produces water flow through secondary group of jets. Can be controlled by pressing the pump 2 button on your topside control panel.

Third Pump (on select models)
This produces water flow through third group of jets. This pump will be a high speed only. Can be controlled by pressing the pump 3 button on your topside control panel.

Circulation Pump (on select models)
If equipped, this pump is controlled during filtration and heating only, by the topside control configuration. Refer to quick reference card for filtration frequency and duration.

Ozonator (on select models)
Your ozonator will operate in conjunction with your filtration system and circulation pump (if applicable). It will deactivate when any other control function is manually activated and will reactivate after one hour in activity. The ozonator is standard on all spas.

SPA WATER MAINTENANCE

Cleaning your spa water
You need to keep your spa clean and ready to use. When you enter your spa, you bring in as much contamination as 50 people would in a normal size swimming pool. Because your spa is such a small, enclosed environment, it needs to be a sanitary place. We accomplish this with a simple three step process:

1 Balance /// **2** Filtration /// **3** Sanitation

The water that comes from your tap at home is fine for showers or bathing, because it is drained immediately after use. In a spa, your water is used for up to three months. Hot water is a breeding ground for bacteria, so sanitizing becomes necessary, as well as maintaining a specific mineral balance. Having that mineral balance in place ensures that the water, which is naturally corrosive to metal, will not cause damage to the spa equipment. We recommend weekly water testing.

Water testing
Your spa dealer is equipped to perform a thorough analysis of your spa water. Take a one liter sample to the store and they will advise you on the products necessary to properly balance and care for your spa. Unbalanced spa water can quickly damage your equipment. Your spa dealer will advise you on how to protect your investment.

⚠ WARNING!

BE CAREFUL WITH CHEMICALS – damage to the surface of the swim spa can occur due to the improper use of chemicals such as trichlor or chlorine, chemical tablets, acids or swim spa cleaners. Do not let undissolved chemicals lie on the surface of the swim spa. Damage from chemical misuse is not covered under warranty. Improper water chemistry balance can damage the swim spa surfaces and/or equipment, and is not covered under your warranty.

⚠ WARNING!

BALANCE – The spa water must have the correct chemical balance. Improperly balanced water can irritate the eyes, cause corrosion of equipment, leave mineral deposits and reduce the effectiveness of the sanitizer. Balanced water means; establishing a proper balance between total alkalinity, pH, calcium hardness, and dissolved solids.

SPA WATER MAINTENANCE

Problem	Possible Cause	Action
Cloudy Water/ Haze	Total alkalinity in high range.	Add alkalinity decreaser (acid). Target 100.
	pH too high or too low.	Sprinkle or pour pH adjuster.
	Too little sanitizer in water.	Test and adjust pH and sanitizer to range.
	Fine particles won't filter out.	Add flocculant to skimmer, run pump, then remove & clean filters.
	Circulation restricted. Pump sucking air.	Check skimmer basket; clean. Make sure intakes are open.
	Filter is dirty.	Hose off filter: check for tears, fiber breakdown, clogging or collapse: replace.
	Filter cycle too short.	Run filter system 24 hours and reclean and/or run main pump longer each day.
	Total dissolved solids have reached chemical saturation point.	Test TDS at dealer. Drain and refill spa.
	White chips scaling off heater: calcium level too high.	Drain an inch of water off, add fresh water. Test and adjust calcium to range. Add sequestering agent.
Foam	Air leaking into filter system.	Find and fix leaks; use a pro if necessary. Raise water level above the skimmer opening.
	Detergent in water via soap in swimming suit, or on bathers' body and hair.	Advise spa users to rinse soap off more thoroughly in the shower before getting into spa. Double rinse bathing suits. May be less effort to drain and refill the spa.
	Too little hardness in water.	Add calcium to correct level.
	Too much sanitizer in water. Too much algaecide in water.	Remove some water and add new. Retest. Empty out some water and add fresh.
	If foam is still present.	Squirt defoamer over the water surface.

SPA WATER MAINTENANCE

Problem	Possible Cause	Action
Discolored Water	Green water due to copper getting into water or MPS (monopersulfate compound) getting into biguanides.	Add sequestering or chelating agent. If MPS and biguanides mix, do a major flush.
	Too much bromine.	Leave off cover so bromine dissipates more quickly.
Staining	Possible algae: yellow-green, pink, brown, or black.	Treat with algaecide. Worse cases, tetraborates.
	Minerals such as copper or iron making green or brown stains.	Add sequestering or chelating agent.
Odor	Bromamines or chloramines from non-oxidized organic matter.	Shock with non-chlorine oxidizer such as potassium peroxymonosul-fate.
	Moldy dirty cover either inside or out.	Clean cover both inside and out with diluted bleach.

⚠ WARNING!

Do not leave your water treatment products outside. If subjected to extreme heat or cold, their effectiveness can be impaired.

KEEP ALL CHEMICALS OUT OF THE REACH OF CHILDREN!

WINTERIZING YOUR SPA

⚠ WARNING!

In areas of the country where the temperatures drop below 32° F (ºO C), it is important to follow these directions:

When preparing the spa for winter, provide at least 3 gallons of -40 °C plumbing antifreeze.

1 If the spa is not going to be used, drain completely. Be sure all water is removed. Break or loosen unions at each end of pump to ensure water from pump area is removed. Remove pump freeze plugs if so equipped. Using a shop vacuum, vacuum all jets thoroughly to remove any water left over in the plumbing lines.
2 Do not turn unit off with water in the spa. Frozen water may rupture plumbing. Freeze damage repairs are not covered under warranty..
3 Remove and clean filter cartridge. Store cartridge in a secure place to prevent freezing. If the spa is going to be used, maintain normal operating procedures and ensure cover is in place when possible.
4 Using a Shop-Vac type vacuum with a minimum of 5 hp, vacuum the water from all the jets inside the spa. Then, pour the equivalent of 6 cups* of -40 °C plumbing antifreeze into the jets of each bench and the rest into the skimmer. It will be important to vacuum the drain, which in some models is located inside the center panel in front of the spa pack.
5 Install a protective cover over the spa cover to protect it and prevent water from entering the shell.

*15 cups = 3.8 litres

⚠ NOTE!

Freeze ups or damage caused by freezing are not covered under warranty!

SPRINGTIME START-UP

If your spa has been winterized, the Manufacturer highly recommends that you contact an authorized dealer to restart your spa. The following is an outline of the procedures involved.

- Make sure all o-rings for pumps are in place and undamaged. 43
- Make sure all the fittings that loosened are re-tighten.
- Replace all jet fittings, pump drain plugs, hose bib drains, and bleeder valves.
- Fill the spa with water in a normal way,
- Run the jets on high for about 15 minutes.
- Drain the water.
- Put the filters back in.
- Refill the system and treat chemically as one would after a normal water change.
- Ensure Pump unions and heater unions are tightend. Loose connections are not covered under warranty

For more information about winterizing your system, or restarting a winterized system, please contact your local Authorized dealer.

GENERAL SPA MAINTENANCE

Proper maintenance for your spa cover

1 Use a soft broom to remove accumulation after every snowfall or ice storm.
2 Splash cool tap water on the hardware to free them if they become frozen shut. Household lubricating oil will keep the lock free, but apply carefully because it can damage the cabinet finish.
3 We recommend a good treatment with vinyl conditioner before the first snow or ice. If possible, treat during the winter too.
4 Monitor your water chemistry. Even if the spa is not used regularly, improper water chemistry can cause a mildew build-up on the cover. Clean, PH controlled water will prolong the life of the cover.
5 If mildew is found, remove foam cores from the vinyl encasement. Mix 1 gallon of water, a teaspoon of mild dish washing soap and a cup of bleach. With a soft bristle brush, scrub the inside and outside of the vinyl encasement thoroughly. Take a washcloth and wipe down each foam core; rinse thoroughly. Place the encasement in the sun and foam cores in the shade to dry. Once everything is thoroughly dry, spray the cores and encasement with a mildew inhibitor. Allow to dry completely, then reassemble. The key here, of course, is to maintain proper water chemistry to avoid mildew.
6 We suggest rotating the cover every six months to maintain even wear. Unzip the cover, remove the foam cores, turn over and reassemble.

Ask your dealer about using a cover lifter.

/// PROTECT YOUR COVER! ///

GENERAL SPA MAINTENANCE

Proper maintenance for your spa pillows

- Your spa pillows need to be rinsed periodically to remove any chemical residue. This should help to prevent pillows becoming stiff and discolored.
- If spa is not to be used for a period of time, pillows should be removed. Pillow life will be extended.

Proper maintenance for your spa fountain jets

In order to keep your fountain jets operating properly, follow these instructions in sequence:

- Turn off fountain jets.
- Remove outer ring by turning face counter clockwise.
- Remove internal jet insert with a pair of needle nose pliers.
- Clean plastic filter at the back of the jet insert so all holes are free of debris.
- Reinstall jet insert and outer ring.

Please note: We do not recommend the fountain jets be left on when spa cover is closed, this may damage your spa cover.

Pump and Heater Unions

- Pump unions and heater unions may need to be tightend periodically.

/// Loose connections are not covered under warranty. ///

GENERAL TOPSIDE CONTROLS
YE



in.k600 main keypad
LCD display - 7 keys



in.k450 main keypad
LCD display - 7 keys



in k300 i ke d
in.k300 main keypad
LCD display - 4 keys



in.k500 main keypad
LCD display - 7 keys



in.k800 main keypad
Color LCD display - 10 keys



in.k1000 main keypad
Color LCD display - touchsreen

YE **CLASS GENERAL TOPSIDE CONTROLS** SPA FUNCTIONS

Pump 1 	First press	Second press	Third press
Sequence	Low speed*	High speed*	Off
Indicator	Blink*	On solid*	Off
Default	20 minute time-out		
Sequence	Long press of 5 seconds		
Functionality of a long press	A long press of 5 seconds will enable the Off mode. This mode allows you to stop all outputs including all automatic functions such as filter cycle, heat request and Smart Winter Mode purge for 30 minutes to perform quick spa maintenance. When the Off mode is active, the display will toggle between the "OFF" message, the clock and the water temperature. Press either, Pump 1 or Pump 2, Blower or Econo key to restart the system, before the expiration of the 30 minute display. The spa light will flash a few second before the end of the 30 minutes to warn you that the system is about to resume its normal operation. When the system resumes its normal operation, the display shows On for 3 seconds.		
**If equipped with 2 speeds pump*			

Pump 2, 2 speed 	First press	Second press	Third press
Sequence	Low speed*	High speed*	Off
Indicator	Blink*	On solid*	Off
Default	20 minute timeout		
**If the controller supports Pump 2, 2 speeds.*			

Please note:

/// Symbol Icons may vary. ///

GENERAL SPA FUNCTIONS
YE **CLASS**

Pump 2, 1 speed 	First press	Second press
Sequence	On*	Off*
Indicator	On solid*	Off*
Default	20 minute timeout	
**If equipped with 2 speed pump.*		

Blower 	First press	Second press
Sequence	On*	Off*
Indicator	On solid*	Off*
Default	20 minute timeout	
**If equipped with a blower.*		

Pum 2 and blower 	First press	Second press	Third press	Fourth press
Sequence	Pump 2	Pump 2 and blower ON	Blower ON only	Off
Indicator	On solid*	On solid*	On solid*	Off
Default	20 minute timeout			
**If equipped with a blower.*				

Pump 3 and pump 4 	First press	Second press	Third press	Fourth press
Sequence	Pump 3 hight speed	Pump 3 Pump 4 ON	Pump 4 ON only	Off*
Indicator	On solid*	On solid*	On solid*	Off*
Default	20 minute timeout			
**If equipped with Pump 3 and 4.*				

GENERAL SPA FUNCTIONS
YE **CLASS**

Increase set point	First press	Second press	Holding Key
Display	Spa set point 1 ˚F	Increase Set by 1 ˚F	Increase Set Automatically
Limit	N/A	104 ˚F (40 ˚C)	104 ˚F (40 ˚C)
Default	95 ˚F (35 ˚C)		
Indicator			

Decrease set point	First press	Second press	Holding Key
Display	Spa set point 1 ˚F	Decrease Set by 1 ˚F	Decrease Set Automatically
Limit	N/A	59 ˚F (15 ˚C)	59 ˚F (15 ˚C)
Default	95 ˚F (35 ˚C)		
Indicator			

Light	First press	Second press
Order	ON	Off
Indicator	On solid	Off
Default	2 hours time-out	
Functionality of a long press	Press to hold LIGHT key to acces filter menu (up/down keys modify values). if none of these keys are available.	
Duration	Press LIGHT key to display next parameter, system will reset after last parameter.	

GENERAL SPA FUNCTIONS
YE **CLASS**

Light 	First press	Second press
Parameter	Display	Value of x
Filter cycle duration	Fd xx	2 to 10
Filter cycle frequency	FF xx	0 to 23
Temperature Unit	F	˚F or ˚C

Water Temperature Regulation	
Functionality	In a regulation cycle, the system first generates water flow through the heater housing and the plumbing, in order to ensure accurate water temperature readings as well as avoiding heater activation in dry conditions. After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at Set Point.
Indicator	The “heater” indicator lights up when the heater is on. Icon flashes when taking water temperature reading.

GENERAL SPA FUNCTIONS
YE **CLASS**

Filter (purge)		
Fonctionality	Press hold the filter switch until the Clock icon lights up (about 5 second), 1st parameter will appear (Up/Down keys modify values)	
Duration	Press filter key to display next parameter, system will reset after last parameter.	
Parameter	**Display**	**Value of x**
Time (hour)	XX:30	0 to 12 hours (AM/PM)
Time (minutes)	01:xx	00 to 59 minutes
Filter or purge cycle start time	FS xx PS xx	0 to 12 hours (AM/PM)
Filter cycle duration	Fd xx	0 to 12
Filter or purge cycle frequency	FF xx PF xx	0 to 4
Economy activation	Ep xx	0 = Off / 1 = On
Economy mode start time	ES xx	0 to 12 hours (AM/PM)
Economy mode duration	Ed xx	0 to 24
Temperature Unit	F	0 to 24

Smart Winter Mode	
Fonctionality	Turn pumps on when ambient temperature is below 6˚C
Duration	Pumps activate for 1 minute (every 2 hours or less)
Indicator	or or

GENERAL SPA FUNCTIONS
YE **CLASS**

Economy	First Press	Second Press
Functionality	When Economy mode is set, the pack regulates the water temperature 20 ˚F (11 ˚C) below actual set point.	
Sequence	On	Off
Display	Display the toggle between Eco and water temperature	noE for 3 seconds

On /Off	
Functionality	Depending on the spa manufacturer, this key may have different function: On/Off, Standby mode or quick enable of the Economy mode. On/Off Mode: This mode allows you to stop all outputs including all automatic functions such as filter cycle, heat request and smart winter mode purge for 30 minutes to perform quick spa maintenance. Standby Mode: This mode allows you to stop all outputs and automatic functions with the exception of the heat request for 30 minutes. Manual Economy Mode: This mode allows you to save some energy by regulating the water temperature 20 ˚F (11 ˚C) below the actual set point.

On /Off	First Press	Short press	Long press 3-6 sec.
Display	Off	Temperature of water	Standby

On /Off	First Press	Long press 6-9 sec.	Short press
Display	Temperature of water	Display will toggle between Eco and water temperature	noE for 3 seconds

GENERAL TOPSIDE DIAGNOSTIC MESSAGES & INSTRUCTIONS YE CLASS



An Internal hardware error has been detected in in.xe.

- Restart the spa pack and start and stop all pumps and blower.
- If error reappears, replace in.xe spa pack.



Water temperature at the heater has reached 119˚F.
/// DO NOT ENTER SPA WATER!!! ///

- Restart the spa pack.
- If error persists, measure the temperature with a digital thermometer and compare its reading with temp. on the display. Make sure the temp. reading is lower than 119˚F.
- If problem persists, replace pack.



Temperature inside the spa skirt is too high, causing the internal temperature in the in.xe to increase above normal limits.

- Remove spa skirt and let system cool down, until the error clears.



The system did not detect any water flow while the main pump was running.

- Make sure valves are open and that water level is high enough.
- Check and remove anything obstructing the filter.
- Make sure there are no air locks or that no object obstructs the passage of the water in the heater channel. Pumps may make strange noises. Follow air lock procedure to clear them.



The Prr error message indicates a problem with regulation probe. The system is constantly verifying if temperature probe reading is within normal limits

- Verify if regulation probe located above the heater is properly connected.
- Replace in.xe heater if problem persists.



Water temperature in the spa has reached 108˚F.
/// DO NOT ENTER SPA WATER!!! ///

- Measure the temperature with a digital thermometer and compare its reading with temp on the display. If temp reading is different, replace heater.
- Remove spa cover and let spa cool down.
- Add cold water and lower filter cycles.
- If problem persists replace pack.

TROUBLE SHOOTING GUIDE

No heat or heat too low

Probable Cause n°1	Dirty filter.
Action	Remove filter cartridge and clean.
Probable Cause n°2	Breaker at house off.
Action	Reset breaker at house. Breaker can appear to be on and one pole can be off. Turn breaker OFF then ON twice.
Probable Cause n°3	Pump not primed.
Action	Refer to the section of this manual on pump priming.
Probable Cause n°4	Improper line voltage.
Action	Have a licensed electrician check the line voltage.

Spa Lights won't come on

Probable Cause n°1	Light bulb burned out.
Action	Replace bulb (non-warranty).
Probable Cause n°2	Dirty connection.
Action	Check to see if there is anything covering the connection on the housing that holds the light bulb.

Pump will not prime

Probable Cause n°1	No water in pump.
Action	Make sure water level in spa is correct.
Probable Cause n°2	Closed gate valves or blocked lines.
Action	Open all gate valves. Check suction for blockage.
Probable Cause n°3	Pump surges, jets lose and gain power, loose union or drain plug.
Action	Check union on front or nose of pump to ensure tightness. Check drain plugs to ensure tightness.

Jet(s) won't come on

Probable Cause n°1	Pump not primed.
Action	Refer to the section of this manual on pump priming.
Probable Cause n°2	Gates valves closed.
Action	Check to see if gate valves are in the correct position. Check to see that pump is plugged in.
Probable Cause n°3	Water diverter valve not adjusted correctly.
Action	Turn water diverter valve until desired water flow is obtained.
Probably Cause n°4	Individual jet is closed.
Action	Turn the outer jet housing clockwise to turn jet on.

TROUBLE SHOOTING GUIDE

Low water flow	
Probable Cause n°1	Dirty filter.
Action	Remove filter cartridge and clean.
Probable Cause n°2	Closed gate valves or blocked lines.
Action	Open all gate valves.
Probable Cause n°3	Low voltage or incorrect voltage.
Action	Have a licensed electrician check the line voltage.
Spa is leaking	
Probable Cause n°1	Loose connection.
Action	Hand tighten all disconnects and fittings. Check joints and unions.
Motor does not run	
Probable Cause n°1	No power to motor.
Action	Check power switches and circuit breakers. Check motor plug where plugged into control box.
Probable Cause n°2	Pump jammed from foreign matter in impeller.
Action	Call dealer for recommended action.
Probable Cause n°3	Motor overheats on hot days while filtering.
Action	Reprogram your controls to cycle during the coolest parts of the day and on shorter cycles. (see programming instructions).
Motor runs hot	
Probable Cause n°1	Pump ran dry.
Action	Call dealer for recommended action.
Probable Cause n°2	Restricted suction lines.
Action	Make sure all valves are open/clear suction of debris.
Probable Cause n°3	Improper ventilation
Action	Insure that vents on side of spa are free and clear of any debris or landscaping. Spa should also be located an adequate distance from any walls or fencing for good ventilation.

Stereo and television Issues /// Please refer to manual (provided) ///

⚠ NOTE!

Note: These motors will feel hot to the touch. This is normal. The Overheat Sensor will turn the motor off if there is an overload or high temperature problem.

Quick Reference Card

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

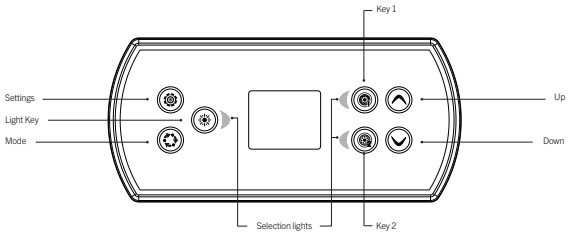


in.k500

intuitive color 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



Settings key

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

Main screen

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

Power

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

Start or stop accessories

To start or stop an accessory, press the associated button. Icons will become animated when their accessory is turned on, and inanimate when turned off. Icons on the screen will reflect the speed or state of the devices running on your spa.

When an accessory has more than two states, press the button until it reaches the desired state.

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

* Only Pump #1 can have a dual speed.

Mode key

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

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



Water temperature

The temperature shown at the top of the screen gives the actual water temperature.

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

Settings





Settings

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

- *Water Care 57*
- *Heat Pump (if installed)*
- *Audio (if installed)*
- *in.clear-200 linked version (version 13.00 and higher*
- *Standby (version 6.00 only)*
- *Maintenance (version 7.00 and higher)*
- *Date & time*
- *Keypad*
- *Wi-Fi (Version 7.00 and higher. Only available on in.touch with software 11.00 and higher.)*
- *Config **
- *Restore **
- *About*

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

*Reserved for qualified electricians installers

Water care

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

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

In Economy mode, the set point will be reduced by 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.

*Default pack value

Water care modes

Away:
In this mode the spa will always be in economy mode; 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.





Modifying schedules

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

Heat pump

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

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

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.

Settings



Audio

The in.k500 can be used with the in.tune, in.stream or in.stream 2 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.

The in.stream 2 Settings menu gives you a Source selector, a Bluetooth disconnect option, an On/Off switch 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.

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.



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, like rinsing or cleaning the filter.

Each task has its own duration, based on normal use.

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

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

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



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.



Date and time

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

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

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



Keypad settings

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

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

Settings





With the in.k500 equipped with a selectable rim light color modul: If the "RGB backlight" option is enabled in the spa configuration an option will appear to allow selection of the keypad rim light color.

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

About

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

Audio operation







in.tune operation

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 3 seconds to turn the in.tune on or off.

in.stream operation

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 3 seconds to turn the in.stream on or off.

in.stream 2 operation *(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.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 light key to confirm.

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

* 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 5 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.

Wi-Fi (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 theUp/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 curser forward
- Use Key 1 to backspace
- Use Light key to confim

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

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

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

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

in.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 color.

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

Changing colors

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

Synchronizing zones

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

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www.geckoalliance.com

IN.K1000+ FUNCTIONALITIES

Full-featured color capacitive touchscreen display keypad
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)

IN.K1000+ FUNCTIONALITIES

Notification icons

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

in.clear system is on

in.clear system is idle

in.clear system is off

system is connected to Wi-Fi

system is not connected to Wi-Fi

in.stream 2 audio system is on

in.stream 2 audio system is off

in.mix is installed

Spas functions

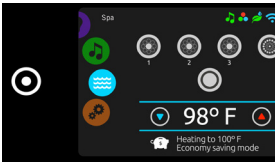
Quick and easy step-by-step instructions to control the main functions and to configure system settings of your spa from its in.k1000+ main spa keypad.



Turn keypad on

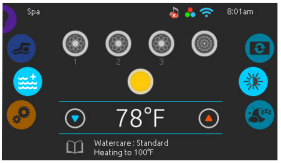
3 minutes after the last pump is turned off, the screen will shut off if there is no touch activity.

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)
- color (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.

IN.K1000+ FUNCTIONALITIES

Spa Mode



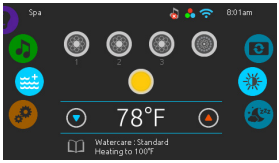
Spa mode

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 desire icon menu is highlighted in the middle.



Start or stop accessories

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

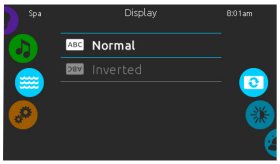
Icons on the screen will reflect the speed or state of the devices running on your spa. When an accessory has more than one speeds press the button until it reaches the desired speed.



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.

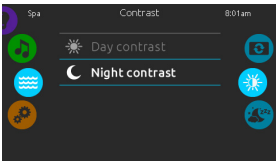
When the set value is lower than the current temperature Cooling to xx.x will appear below. When the set value is higher than the current temperature, Heating to xx.x will be indicated under the value. Normally there is a short delay before the heating starts, during which Heating Suspended is indicated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

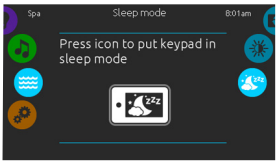
Simply touch the line of the orientation you want to select.



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

IN.K1000+ FUNCTIONALITIES

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 • electrical configuration
- heat pump (if installed) • Wi-Fi
- miscellaneous
- about
- date & time
- keypad

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 5 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

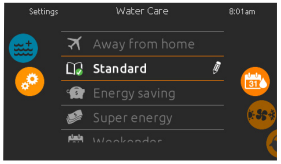
The spa will always be in economy mode during peak hours, every day of the week.

Weekender

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

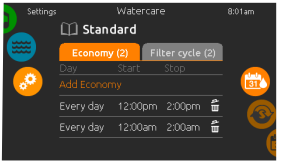
IN.K1000+ FUNCTIONALITIES

Modifying water care schedules



Water care

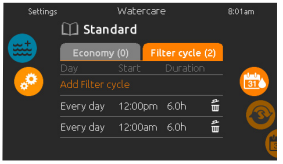
To modify a Water care category, touch the pencil icon at the right end of the desired water care to open the selected Water Care menu.



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.



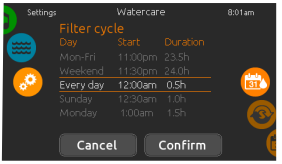
Filter cycles

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.

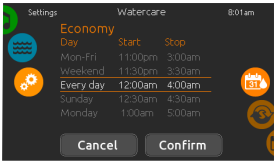
In Economy mode, the set point will be reduced by 20°F, which means that the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.

The filtration schedule show 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 fix number of minutes, therefore the duration will be set to N/A on the screen, and only the start time can be modified.

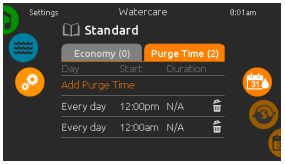


You can modify the programmed schedules by selecting one and adjusting the schedule.

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.



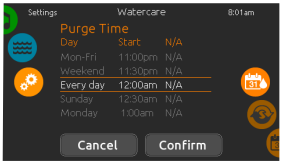
Once you have set the schedule, press "Confirm". If you don't want to keep any changes, press "Cancel" or use the calendar icon to go back.



Purges

Touch the Purge 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.

IN.K1000+ FUNCTIONALITIES

Heat pump modes

Eco Heat

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

Smart Heat

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

Eco Auto

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

Smart Auto

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

Cool

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

Electric

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



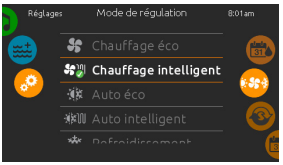
Heat pump

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

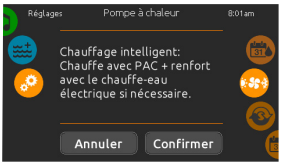
Slide to make a selection and Press on it to confirm. When you select a Heat Pump Mode, you will be asked to confirm your choice.

**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 need. 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.

IN.K1000+ FUNCTIONALITIES

Heat pump modes (continuation)



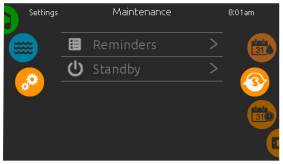
Est. energy saved
Only available with a Gecko Brand Heat Pump (in.temp)

In this section, you can view your estimated kWh economy graph. These calculations are made while using a 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, make sure the heat pump is well maintained and operates in the recommended conditions in regards to water flow, air exchange through discharge panel, adequate compressor pressure and cleanliness of pipes and heat exchanger.

Maintenance



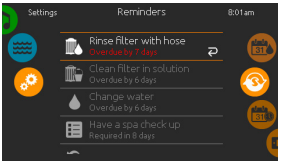
Maintenance

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, like 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.



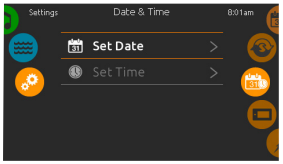
Standby

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

The normal page will return at the end, once the pumps will be restarted.

IN.K1000+
FUNCTIONALITIES

Date and time



Date and time

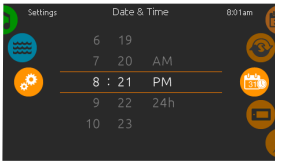
To modify date and time settings, slide the right wheel until the date and time icon is highlighted in the middle.

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



Set date

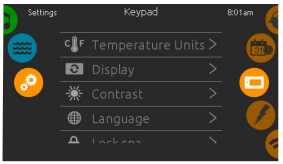
Here you can adjust the year, month and date. Simply swipe up and down the column you want to change, and select the desired value. When done, touch the calendar icon at the right of the screen.



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

Keypad settings



Keypad settings

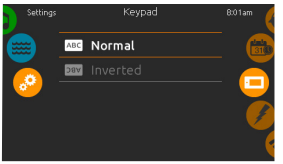
To modify keypad settings, slide the right wheel until the keypad icon is highlighted in the middle.

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.

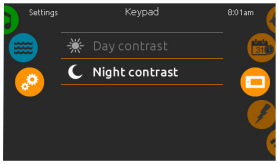


Display orientation

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

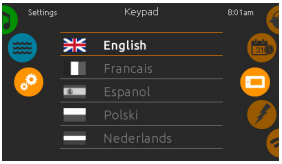
IN.K1000+ FUNCTIONALITIES

Keypad settings



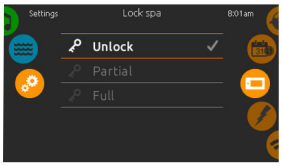
Display contrast

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)

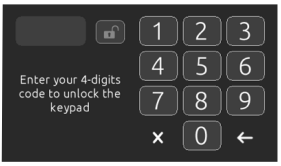
When this option is enabled, the user can partially or completely lock the keypad.

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.

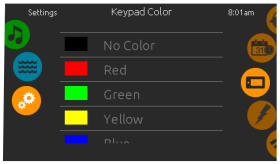


When the user wants to lock the keypad he is asked to select a 4-digit code. The same code will be needed to unlock the keypad.



Next time he wants to lock the keypad, he will be prompted again to select a 4-digit code.

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



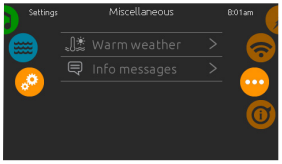
Keypad color (optional)

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

8 pre-defined colors are available. If the in.mix is installed, the keypad rim color can also be associated to an in.mix zone.

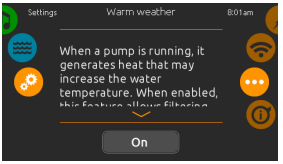
IN.K1000+ FUNCTIONALITIES

Miscellaneous



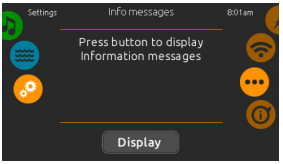
Miscellaneous

This menu gives access to modify the Warm Weather option and info messages in the media center.



Warm weather

When pumps are running, they produce heat that may increase your water temperature. "Warm Weather" option 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.



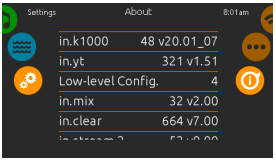
Info messages

Press display/hide key to modify 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.

About your spa system

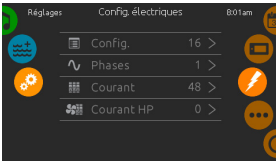


About

To get info 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 different components of your system will be displayed.

Electrical configuration



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

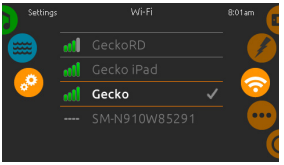
IN.K1000+ FUNCTIONALITIES

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



Wi-Fi settings

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



Wi-Fi networks

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

Select network will be identified by a green check mark.

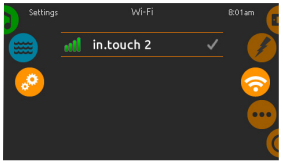
Swipe Up or Down the list to select your network.



Wi-Fi network password

If the Wi-Fi network is password protected, enter it when keyboard prompts. Use Enter key to validate the password.

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



Wi-Fi (in.touch 2)

When a 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.

IN.K1000+ FUNCTIONALITIES

Swim mode

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



The Duration of all training drills and the Intensity of all pre-set training drills are set in this page.
The number of available intensities depends on the swim spa configuration and on the selected training drill, whose name is 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.

Swim settings



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

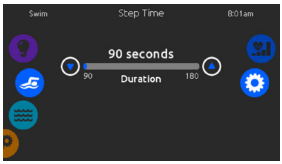
- Warm up
- Cooldown
- Step Time
- Preparation Time
- Light (requires an in.mix installed)



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 minute.

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

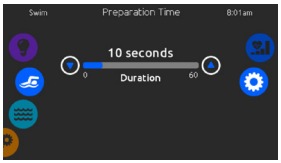


Step time

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

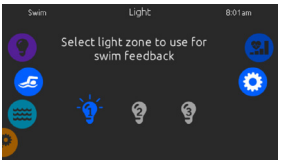
IN.K1000+ FUNCTIONALITIES

Swim settings (continuation)



Preparation time

This page allows you to adjust the Preparation time. The preparation allows the swimmer to take place between the time when he presses on 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 second.



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 color 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

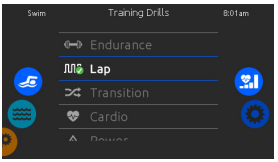
3- After the warm up, color tones range from light blue to bright red depending on swim intensity

4- Blinks twice when the intensity changes during the workout

5- Changes to a light blue color 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

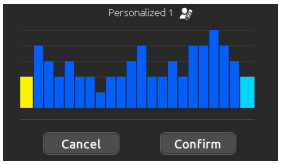
This training drill will perform a “pyramid” program where the intensity will progressively increase until the maximum is reached. It will then decrease progressively to end .

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.

IN.K1000+ FUNCTIONALITIES

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.

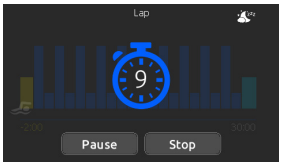


When the personalized pattern is completed, press Confirm to save your changes and return to the swim window.

You can also press Cancel at any time to exit without saving your modifications.

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

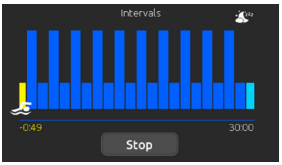
Swim workout



When you press the Start button, the preparation counter appears and starts to decrement, 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.

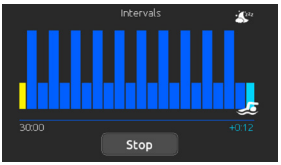


A swimmer icon is also displayed on the screen and will move toward the right as the swim session progresses.

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 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 cooldown portion of the session, displayed in light blue.

The elapsed workout time remains on the left and a light blue timer starts incrementing on the right, indicating the time spent in cooldown.

IN.K1000+ FUNCTIONALITIES

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



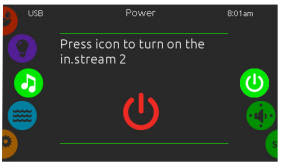
To select the audio mode, slide the left wheel up or down until the audio icon menu is highlighted in the middle.

In the Audio page you can access the following:

• in.stream 2 on/off • audio source selector • speaker calibration • disconnect bluetooth

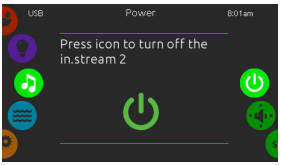
To select an item, slide the right wheel until the desired icon is highlighted in the middle.

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 center of the screen to turn in.stream 2 on.



Turn in.stream 2 OFF *(icon green)*

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



Main display

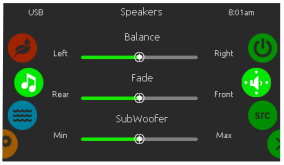
Press Play / Pause to start or pause playback of audio files.

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.

IN.K1000+ FUNCTIONALITIES

Speakers setting



To modify your speaker settings

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

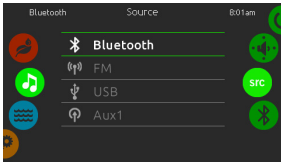
You can adjust:

- 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.

In the menu list, the following sources are available:

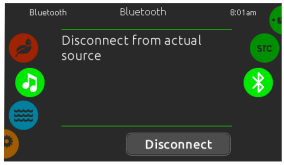
- Bluetooth
- FM
- USB
- Aux. 1

Simply select the desired one to use.

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

Please 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

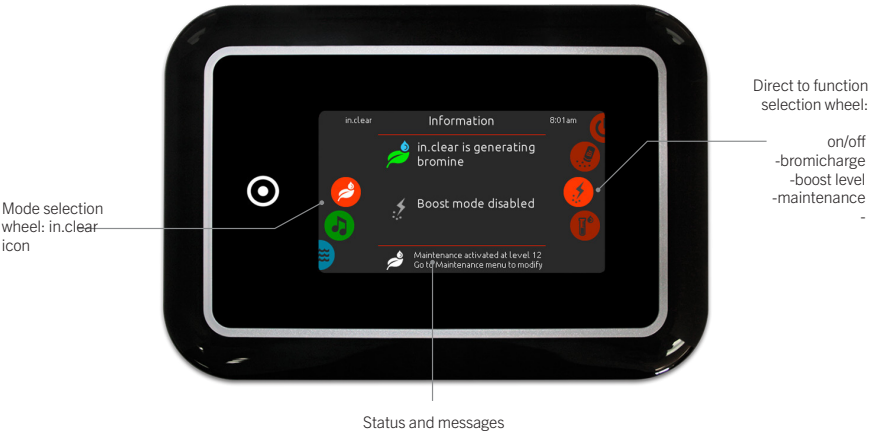


If a device with Bluetooth technology is connected to the in.stream 2, you can disconnect it by pressing the Disconnect key at the bottom of the screen.

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.

IN.K1000+
FUNCTIONALITIES

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



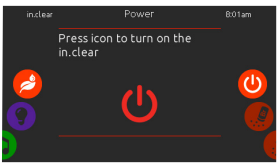
To select the sanitization mode, slide the left wheel up or down until the in.clear icon menu is highlighted in the middle.

In the sanitization page you can access the following:

- boost level
- on/off
- bromicharge
- maintenance level

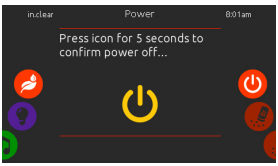
To select an item, slide the right wheel until the desired icon is highlighted in the middle.

On/Off



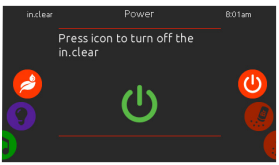
Turn in.clear ON -
Step 1 (icon red)

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 -
Step 2 (icon yellow)

Press icon for 5 seconds to confirm power off.

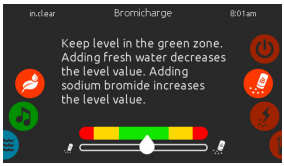


Turn in.clear OFF -
Step 3 (icon green)

Press the icon to turn off the in.clear.

IN.K1000+ FUNCTIONALITIES

Bromicharge™ level



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

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

Performing a test

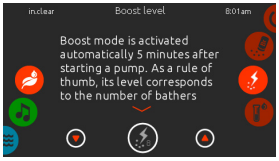
To perform a water test, slide the right wheel until the add BromiCharge™ icon is highlighted in the middle.

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 (.5 lb) of BromiCharge™ at a time and always allow 5 minutes for the gauge to react before adding more sodium bromide.

Boost level



Modify the boost level

Boost mode is activated automatically 5 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 correspond 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 level icon to confirm your selection.

Maintenance level



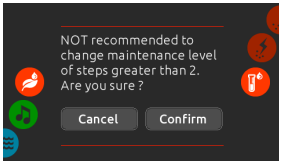
Modify the maintenance level

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.

Note that the level can be adjusted by increment of 2 using the up and down arrow keys.



Please 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, retest the bromine level the day after. If the bromine is not in the 3-5 range and 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.

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 3 consecutive days, your maintenance level is well adjusted.

IN.K1000+ FUNCTIONALITIES

Color mode

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



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 color.

Changing colors

Once a zone has been selected, use the color wheel to choose the desired color or the rainbow icon to get changing colors.

On/off

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

Synchronizing zones

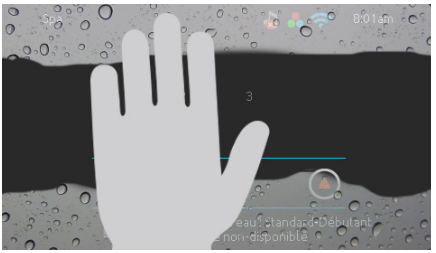
The synchronization/desynchronization icon allows you to match the color of the selected zone with the other zones.

Intensity

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

IN.K1000+ FUNCTIONALITIES

Too much water on display

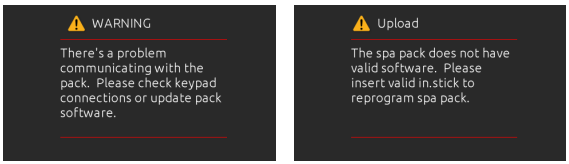


Wipe screen

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.

WARRANTY SUMMARY

Limited Warranty Summary
Please refer to the warranty card included with your product for complete warranty information. In order to receive prompt warranty service, you must register your spa - ask your dealer about registering. The manufacturer provides a limited warranty to our customers. It applies to the spa structure, surface, plumbing, pumps, heater, blower, and controls. The limited warranty does not cover damage resulting from improper maintenance, improper installation, misuse, abuse, accident, fire, normal acts of God, wear and tear, or improper water maintenance. Unauthorized modifications of the spa may void the warranty. Replacement costs associated with transportation, removal, and reinstallation are the sole responsibility of the spa owner.
Lacus Innovations reserves the right to make changes in design or material of its products at any time without incurring liability. This limited warranty applies to the first retail purchaser and terminates upon any transfer of ownership. The client can ask the retailer if he offers it.

Disclaimer:
The information in this manual is accurate to the best of Lacus Innovations. However, Lacus Innovations. assumes no responsibility for errors or omissions. Nor is any liability assumed for damages resulting from use of the information contained herein.

At the time of print, this manual is accurate in its information. Lacus Innovations reserves the right to modify its product to improve it without prior notice.

Safety Sign
The safety sign enclosed with your owner's manual packet should be permanently installed where visible to all users of the spa. It is very important that you, as a spa owner, review the important safety instructions and warnings before you operate your spa. It is equally important that you instruct all users, even occasional ones, as to the warnings associated with spa use. You may obtain additional signs by contacting:

LACUS
INNOVATIONS

963 Bethany Road, Lachute (Quebec), J8H 2C5, Canada

Lacus Innovations Inc. reserves the right to change product selections and/or make product modifications without prior notice. Your Lacus Innovations dealer/supplier is an independent contractor and not an agent or employee of Lacus Innovations or any of its subsidiaries. Lacus Innovations assumes no responsibility for any representations, statements, or contracts made by a dealer/spa supplier.

Company: _____

Adress: _____

Phone: _____

Warranty Submitted: _____

Model: _____

Serial Number: _____

Equipment Pack: _____

Color: _____

Date of Delivery: _____

Please ask your dealer about registering your warranty.

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