

TITAN  
SPAS



# OWNER'S MANUAL

FOR

SWIM SPAS

&

THERAPEUTIC SPAS

TITAN

Dear customer,

Thank you for choosing your new Swim Spa or Therapeutic Spa built by Titan Spas. We congratulate you on your decision to enjoy the finest spa available.

It's time to relax! You now have your very own portable spa by Titan Spas. By fully understanding the operation of each features of your new spa, you will be assured of many years of hassle-free, hot water therapy and fun. Your safety is of paramount importance to Titan Spas family. We urge you to read and become thoroughly familiar with all safety aspects addressed in this manual.

Your choice of a Titan Spa indicates that you are devoted to excellence. At Titan Spas we believe a good foundation is required to build a superior product, both in design and philosophy. Canadian built with the finest materials and advanced technology to withstand even the harshest of weather conditions, our spas are made to last. To safely and effectively use your spa, we recommend that you take the time to read this manual before you hook-up and operate the spa, ensuring an enjoyable experience right from the start.

Notes:

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# FOR THE CUSTOMER

Please read the entire Owner's Manual before installing and using your spa. This manual will be useful throughout the entire lifespan of your spa. The goal of this manual is to provide you with safety and operational information plus some tips that will help you enjoy your spa to its fullest. At the time of print, this manual is accurate in its information. Titan Spas reserves the right to change or improve its product and this owner's manual, without prior notice.

Please complete the following information as soon as the spa is installed.

SPA MODEL : \_\_\_\_\_  
SERIAL NUMBER : \_\_\_\_\_  
COLOR : \_\_\_\_\_  
DATE PURCHASED : \_\_\_\_\_  
DATE INSTALLED : \_\_\_\_\_

## LIST OF PRODUCTS

Please make sure that the following products were delivered to you.

- Titan Spa
- Superior quality spa cover
- Spa filter(s)

For further information, please contact us or your retailer.

**TITAN SPAS**  
760 Olive-Paquette (Suite # 200)  
Lachute J8H 4N6 QC.  
Canada  
info@titanspas.ca



# EXCLUSION OF LIABILITY

This manual has been written to ensure the proper use and proper installation of your spa. The supplier or vendor is not responsible for improper installation of the spa; or any changes made in the spa, or if it has been misused or has had deficient maintenance.

All warranties hereunder are void if the spa has been subject to alterations (including aftermarket accessories), misuse or abuse or any repair of the spa has been attempted by anyone other than an Authorized Technician of Titan Spas. Alterations include, but not limited to, any change to the components, replacement of components or addition of components without the written authorization from Titan Spas.

Misuse includes, but not limited to, careless handling of the spa, damages caused by improper and/ or non-certified electrical hook-ups, failure to operate the spa in accordance with the instructions contained in the owner's manual provided with the spa, including incorrect start-up procedures or dry firing of the spa, any use of the spa or any of its components in an application for which it was not designed, and damage caused by improper chemical balance (including any damage to spa components caused by scale build up due to inadequate water chemistry or over-chlorination), ice formation in the spa or its plumbing, overheating the spa or spa water, damage to the spa surface by allowing undissolved sanitizing chemicals to lie on the surface.

Any damage caused by moving the spa or improper installation (including an improperly prepared or uneven base of support) is expressly excluded from the warranty.

Spa covers are not warranted against chemical burn and or discoloration. Spa covers are not warranted against water absorption or any damage resulting from water absorption. Any damage resulting from the mishandling of the spa cover in any way is not covered under warranty. Any damage caused by moving of the spa or improper installation (including insufficiently prepared or uneven ground) is considered abuse and any damage to the material or workmanship of the spa cabinetry and floor in shipping or handling are expressly excluded from the warranty. Titan Spas will not be responsible for power company issues or improper electrical

installations, damage and/or lack of performance resulting from high or low voltages outside operating parameters. Titan Spas will not be responsible for software and product upgrades throughout the life of the spa. Furthermore, Titan Spas expressly excludes warranty coverage on any of the following:

- Acts of nature including but not limited to damage resulting from lightning, storm, flooding, freezing, fire and any other acts of nature.
- Any spa installed in a commercial application or spa lease.
- Any failure caused by improper cover use or or damage to the spa surface by leaving the spa outdoors without the spa cover in place. The spa cover must be kept on the spa when not being used.
- The heat created by leaving the spa in direct UV light (sun) without a cover may cause surface issues with the acrylic and may also cause plastic parts to warp, some fittings will leak or cease working as a result. These occurrences are not covered under warranty.
- The spa cover must be kept on the spa when not being used.
- Scratches or micro-crazing in the spa shell reported after the day of installation are not covered under warranty. Micro-crazing is defined as an area of tiny shiny lines visible in areas on the surface of some thermoplastic sheets. This phenomena, although rare, is known to occur in many types of plastic sheet materials. The surfaces of thermoformed acrylic spas are not immune to this possibility. However, this phenomenon is only aesthetic and does not affect the operation of the spa or the durability of the acrylic shell.
- Damaged caused by unapproved sanitizers such as acids, calcium hypochlorite, sodium hypochlorite, peroxides, any sanitizing chemical that may remain undissolved on the spa surface.
- Installation of not Titan Spas approved salt systems will void the warranty related to pump seals, metal part, jets, etc.
- Damage caused by any item(s) attached to or installed onto the spa, including but not limited to gazebos, cover lifters and cedar

accessories. Any options or additional components that are not factory installed are not covered under warranty.

- Any damage or failure due to improper preparation for winter storage is not covered under warranty.
- Damage to pillows reported beyond the day of delivery will not be covered under warranty. Pillows are to be removed from the spa when not in use.
- Any damage resulting from the use of cover removing mechanisms is not covered under warranty

Titan Spas will not be liable for loss of use of the spa or other incidental or consequential costs, expenses or damages that may include but not limited to, the removal of a permanent sun deck, sunroom, gazebo, or other custom fixture, any crane costs associated with the removal of the spa for service or replacement.

Titan Spas shall not be liable for costs arising from water, filter cartridges and chemical loss. Under no circumstances shall Titan Spas or any of its representatives be liable for any injury to any person or damage to any property.

Titan Spas warranties are limited to a maximum amount of money received by Titan Spas with respect to the sale of the spa.



**THIS SPA IS FOR RESIDENTIAL USE ONLY**

**ANY COMMERCIAL USE VOIDS THE  
WARRANTY HEREBY DESCRIBED**

**NO OTHER MATERIAL THAN COPPER SHALL  
BE USED FOR THE SPA CONNECTION. THE  
USE OF ANY OTHER MATERIAL WILL VOID THE  
WARRANTY**

# **IMPORTANT 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.*

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

## **READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY**

## **THIS GUIDE CONTAINS IMPORTANT SAFETY INSTRUCTIONS**

## **READ AND OBSERVE CAREFULLY ALL THE INSTRUCTIONS**

## **KEEP THEM IN A SAFE PLACE FOR FUTURE REFERENCE**

# GENERAL INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed.

## PERMITS

Most cities, counties, states, provinces and countries require permits for construction and installation of electrical circuits outdoors. Some also have safety codes that require fences with self-closing fences to prevent children from using the pool or spa unattended. Be sure to check the regulations with the appropriate authorities.

## SAFETY SIGN

Safety Sign Must Be Posted – The orange WARNING sign like the one shown is packed with your new spa/spa. This sign must be posted in a prominent place in close proximity to the spa installation site immediately upon completion of spa installation.

**AVERTISSEMENTS**

**RÉDUIRE LES RISQUES D'ÉLECTROCUTION**  
1 – N'INSTALLEZ AUCUN APPAREIL ÉLECTRIQUE À MOINS DE 5 PIEDS (1,5 M) DU SPA.

**RÉDUIRE LES RISQUES DE NOYADE DES ENFANTS**  
1 – SURVEILLER LES ENFANTS EN TOUT TEMPS.  
2 – VERROUILLER LE COUVERCLE DU SPA APRÈS CHAQUE UTILISATION.

**RÉDUIRE LES RISQUES DE SURCHAUFFE**  
1 – LES FEMMES ENCENTES, LES DIABÉTIQUES, LES PERSONNES EN MAUVAISE CONDITION PHYSIQUE OU SOUS ORDONNANCE MÉDICALE DOIVENT CONSULTER UN MÉDECIN AVANT D'UTILISER LE SPA.  
2 – QUITTEZ IMMÉDIATEMENT LE SPA SI VOUS VOUS SENTEZ MAL À L'AISE, ÉTOURDI OU SOMNOLENT. L'EAU CHAUDE PEUT PROVOQUER UNE HYPERTHERMIE ET UNE PERTE DE CONSCIENCE.  
3 – L'UTILISATION D'UN SPA EN CONJONCTION AVEC DE L'ALCOOL, DE LA DROGUE OU DES MÉDICAMENTS PEUT ENTRAÎNER UNE PERTE DE CONSCIENCE.

**LORS DE LA GROSSESSE, L'IMMERSION DANS L'EAU CHAUDE PENDANT DE LONGUES PÉRIODES PEUT NUIRE AU FŒTUS. VÉRIFIER LA TEMPÉRATURE DE L'EAU AVANT D'UTILISER LE SPA.**  
1 – N'ENTREZ PAS DANS LE SPA SI L'EAU EST PLUS CHAUDE QUE 100°F (38°C).  
2 – NE RESTEZ PAS DANS LE SPA PLUS DE 10 MINUTES.

POUR OBTENIR DES EXEMPLAIRES SUPPLÉMENTAIRES DE CETTE AFFICHE OU POUR REMPLACER CELLE-CI COMMUNIQUEZ AVEC VOTRE DÉTAILLANT.

**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**  
1 – CHECK WITH A DOCTOR BEFORE USE IF PREGNANT, DIABETIC, IN POOR HEALTH OR UNDER MEDICAL CARE.  
2 – EXIT IMMEDIATELY IF UNCOMFORTABLE, DIZZY OR SLEEPY. SPA HEAT CAN CAUSE HYPERTHERMIA AND UNCONSCIOUSNESS.  
3 – SPA HEAT IN CONJUNCTION WITH ALCOHOL, DRUGS OR MEDICATION CAN CAUSE UNCONSCIOUSNESS.

**WHEN PREGNANT, SOAKING IN HOT WATER FOR LONG PERIODS CAN HARM YOUR FETUS. MEASURE 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.

FOR ADDITIONAL OR REPLACEMENT COPIES OF THIS SAFETY SIGN, CONTACT YOUR RETAILER.

**Important:** It is extremely important that this sign be permanently placed in clear view of persons using the spa. Occasional spa users may not be aware of some of the dangers hot water poses to pregnant women, small children, seniors, and people under the influence of alcohol. If you did not receive a warning sign or your sign has become damaged, please call your local dealer or Titan Spas for a replacement. Shipping fees may apply.

## **EARTHING**

A green coloured terminal or a terminal marked G, GR, Ground, Grounding, or  symbol 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.

At least two lugs marked “BONDING LUGS” are provided on the external surface or on the inside of the supply terminal box or compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the spa or spa to these terminals with an insulated or bare copper conductor not smaller than No. 8 AWG (8.4 mm<sup>2</sup>).

All field-installed metal components such as rails, ladders, drains, or other similar hardware within 3m of the spa or spa shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 8 AWG (8.4 mm<sup>2</sup>).

# WARNINGS

## **WARNING** – Wiring

1. Use only solid copper wire and secure it to the grounding lug on the power supply located in the equipment compartment for installations within 5 feet (1.5m) of any metal surface.
2. Any wire used for the connection between the GFCI breaker and the spa must be a copper wire. Any other material could damage the spa and represent a fire hazard.

## **WARNING** – Risk of electric shock

1. Install the unit at least 5 feet (1.5m) from any metal surface. You can install the spa within 5 feet (1.5m) of any metal surface if each of these surfaces is permanently connected to the cable connector provided for this purpose in the power box, by a solid copper conductor. A wire connector is provided on this unit to connect a minimum 8 AWG (8.4 mm<sup>2</sup>) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit (for units intended for outdoor use only).
2. Consult your local authorities for specific requirements in your area.
3. Do not place an electrical appliance (such as a lamp, telephone, radio, television, etc.) within 5 feet (1.5m) of the spa.
4. Never operate an electrical appliance inside the spa or if your body is wet.
5. Replace components only with identical components.
6. Do not operate the audio controls while inside the spa.

## **WARNING** – Prevent Electrocution

1. Do not connect any auxiliary components (for example cable, additional speakers, headphones, additional audio/video components, etc.) to the system.
2. These units are not provided with an outdoor antenna; when

provided, it should be installed in accordance with Article 810 of the National Electrical Code, ANSI/NFPA 70.

3. Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified service personnel.
4. When the power supply connections or power supply cord(s) are damaged; if water is entering the audio/video compartment or any electrical equipment compartment area; if the protective shields or barriers are showing signs of deterioration; or if there are signs of other potential damage to the unit, turn off the unit and refer servicing to a qualified service personnel.
5. This unit should be subjected to periodic routine maintenance (for example, once every 3 months) to make sure that the unit is operating properly.

**WARNING** – Risk of accidental drowning

1. To avoid accidents, exercise extreme caution to prevent unauthorized access to the facilities.
2. Do not let children use the spa without the supervision of an adult.
3. Always secure and lock the cover when the spa is not in use.
4. No diving or jumping in the spa.

**WARNING** – Fittings and Suction Sockets

1. The dimensions of the suction connections correspond to the specific output flow of the pump. If you need to replace the suction fittings or the pump, make sure that the flow coefficients are compatible. Do not operate the spa if the fittings are broken or if they are not installed. Never replace one fitting with another whose flow rate is lower than that indicated on the original fitting.
2. To prevent hair or a part of the body from being sucked in, do not use the spa unless the suction grilles are all in place.

**WARNING** – Water temperature

1. The water temperature should never exceed 40°C (104°F). It is not considered safe to dive into water at a temperature

exceeding 40°C (104°F) however water temperatures between 38°C (100°F) and 40°C (104°F) are considered safe for a healthy adult.

2. A lower temperature is recommended for young children or for a use of more than 10 minutes.
3. Before using the spa, it is important to measure the water temperature with an accurate thermometer as the sensitivity of the temperature control devices may vary.
4. Extended use of the spa can be dangerous for your health.

**WARNING – Drugs and Alcohol**

1. Consumption of alcohol, drugs or medication before or while using the spa may result in unconsciousness and, as a result, a risk of drowning.
2. People on medication and / or who have health problems should consult their doctor before using their spa since some medications can cause drowsiness or affect heart rate, circulation and blood pressure.

**WARNING – Health issues**

1. People who are obese or who have a medical history of heart problems, who have high blood pressure or low blood pressure, circulatory problems or diabetes, should consult a physician before using the spa.
2. People with infectious diseases should not use the spa.

**WARNING – Pregnancy**

1. Pregnant women, whether or not their pregnancy is confirmed, should consult a physician before using a spa.
2. The temperature should never exceed 38 ° C (100 ° F).
3. Check the water temperature before entering.
4. Staying in hot water for a long time can be dangerous for the fetus. Pregnant women should never stay in the water for more than 10 minutes.



## **WARNING – Risk of hyperthermia**

1. Get out of the water immediately if you feel discomfort, dizziness or tiredness. The heat of the water can cause hyperthermia and loss of consciousness.
2. Do not use a spa immediately after a tiring exercise.
3. An extended stay in hot water can cause hyperthermia.
4. Hyperthermia occurs when the body's internal temperature rises several degrees above the normal body temperature of 37°C (98.6°F).
5. Symptoms of hyperthermia include: dizziness, lethargy, drowsiness and fainting.
6. The effects of excessive hyperthermia include:
  - Insensitivity to heat.
  - Inability to realize the need to leave the spa.
  - Unconsciousness of impending dangers.
  - Fetal lesion in pregnant women.
  - Physical inability to leave the spa.
  - Loss of consciousness and, as a result, risk of drowning.

## **WARNING – Spa damages**

- Never climb on your spa cover to avoid breakage.
- Snow should be removed regularly from the the cover.
- Move the cover by holding the handles designed for carrying it.
- To avoid damage when the appliance is left empty for an extended period:
  - Add a waterproof tarp to minimize seepage.
  - Periodically check that no water has seeped in the spa and plumbing.
  - Add supports for each part of the cover.

- Tagging the breaker in the main circuit panel is a good precaution.
- The spa has bottom suction that supply the pumps with water. It is recommended to clean the debris from the grills weekly. If you fail to do so, the pump may be damaged.

# INSTALLATION

Proper planning is an important consideration when installing your new spa. Site selection is a critical step and requires serious thought. Planning ahead makes the installation process easier. The following information is provided to assist you in site preparation.

1. Always comply with local building codes and obtain any necessary permits. You may also need to consult with an engineer to address your specific design needs.
2. Contact an electrician to assess your electrical needs, install wiring, and assure a safe operation.
3. Position your spa with proper access to water, drainage, and electricity. Make sure proper drainage is available when the spa is installed because overflow and splashing must be able to drain away without compromising the stability of the ground on which the spa rests.
4. Make sure that your spa will fit into the space you have chosen and the delivery route will accommodate its large size.
5. Protect the pump and all equipment from the weather by ensuring the cabinet panels are secure at all times.
6. Allow 36 inches (1 meter) of unobstructed access to all sides of your spa for normal servicing. Your spa is not designed to be recessed in the ground or on a deck.
7. Consider positioning your spa out of or adequately protecting it from the wind. Just as people can get cold on cool / windy days so can your spa. Windy environments can significantly increase operating costs.

## INDOORS

Although indoor installation is not recommended, it is still a valid way to enjoy your Titan Spas!

The room chosen for the installation must have a floor drain to handle splash water, a powerful outside exhaust fan or humidistat controlled exhaust fan for ventilation and a humidifier. Always provide adequate ventilation for the support equipment

In all cases, ensure that the flooring is capable of supporting 250 lbs/ft<sup>2</sup> ( $\approx 1500\text{kg/m}^2$ ).

## **OUTDOORS**

If you are installing your spa outdoors, place it on a solid, level surface. For any given base choice, make sure it complies with the applicable laws and can withstand the weight of the filled spa and its users. Depending on the model, once filled your spa can weigh up to 33,000 lbs ( $\approx 15\,000\text{ kg}$ ). In all cases, ensure that the base is capable of supporting 250 lbs/ft<sup>2</sup> ( $\approx 1500\text{kg/m}^2$ )

Make sure you do not install your spa under power lines. Vapors from the water can conduct electricity.

The spa must be supplied through a residual current device (RCD) having a rated residual current not exceeding 30 mA. The RCD must be between the spa and the house's electrical supply. It must be no less than 5 ft (1.5M) from the inside of the spa but within sight of the spa.

### **BASE OF SUPPORT - Above Ground & In-Ground**

Installation of a drained and leveled concrete pad is mandatory.

Improper drainage may destabilize the ground under the base, with the resultant shift of the support base causing damage to the spa structure.

For best results, we recommend to follow those instructions :

- Dig out and level the ground 12 inches ( $\approx 30\text{ cm}$ ) below your desired base level.
- Base dimension should be at least 6 inches ( $\approx 15\text{ cm}$ ) larger than the spa on each side. Except for the side where the controls and mechanicals components are installed, we recommend 3 feet ( $\approx 1\text{ m}$ ) larger.
- Ensure that there is good drainage, via a properly designed French drain system and/or a sump pump, to prevent any flooding damage to the spa, its structure or the base.
- In regions where freeze/thaw occurs, or where there will be custom decking abutting the spa we recommend the installation

of cement pillars (sono tubes) beneath the pad to prevent shifting.

- The poured concrete footings must extend below the frost line beneath the pad to prevent the possibility of future shifting.
- Install 6 inches (≈15 cm) of crushed stone.
- Install 6 inches (≈15 cm) of poured concrete.
- Level the concrete and apply a broom-type finish.

### **IN-GROUND & PARTIAL IN-GROUND - Specifications**

When recessing the swim spa all or part way below ground level, a concrete base as described in “BASE OF SUPPORT - Above/In-ground” section, along with a concrete or wood retaining wall to hold back the earth is mandatory. This forms a box or ‘bunker’, in which the swim spa is placed. We do **not** recommend back-filling full in-ground or partial in-ground installations.

Install protective waterproof conduit to house any cables that will be buried

Access for future service must be considered at the time of design and installation. You must be able to access all sides and areas of your swim spa. Difficult access will result in supplemental service labour charges not covered by the factory warranty. Consider easily removable deck materials.

Appliances with live parts, must be inaccessible to a person in the spa at all times.

Earthed appliances must be permanently connected to fixed wiring.

Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the spa.

Behind the front panel, the spa pack is equipped with a bonding lug to enable you to connect a grounding conductor no smaller than 8 AWG (8.4mm<sup>2</sup>) to any metal component or appliance within 3 meters of the spa thus maintaining equipotential bonding.

## **WARNING - Base of support**

Considering that the composition of the land is different from one region to another, before following the aforementioned instructions it is important to know what it is made of. According to your particular land, it is possible that you will need to follow different instructions to make sure the base of support does not move in any way through the spa's lifespan.

If you choose to build a different base of support than the one described above, it has to be of equal robustness or superior.

Titan Spas will not be liable for any damage to the spa due to an improper base of support.

Titan Spas will not be liable for any damage to the spa due to a base that has moved for any given reason making the spa uneven.

# **SPA COVER**

## **INSTALLATION**

Your spa comes with a 4 season cover. Lay the cover over the top of your spa and make sure to put the thickest parts in the center to allow water to run down the ends and sides. The cover comes equipped with fasteners to prevent the wind from blowing it off. Screw these fasteners in place on the spa skirt where they naturally fall with the supplied screws.

## **MAINTENANCE**

Clean the outer surface of the lid with a mild detergent, warm water and a soft brush or cloth. Rinse the lid well after cleaning. Never use a cleaner containing abrasive or scrubbing or washing dough that can damage the surface of the lid.

The cover is made of vinyl and exposed to the sun, it is recommended to apply a vinyl protector on a regular basis to protect the vinyl from cracking or discoloration under the effect of UV rays.

Always cover the spa cover when not in use to prevent heat loss and water seeping. Such precautions help save on electricity and chemical costs.

The cover protects the spa from contaminants and unauthorized persons to enter the spa. Always attach the lid to your spa to prevent the wind from lifting it.



# WATER RELATED

## FILLING

### Step by Step

1. Use your spa with a 230V~ electrical circuit, you will need to install a 230V~ and 60A (minimum) GFCI/RCD breaker. Some models or option packages may require more. To connect your spa to this GFCI/RCD breaker and to the home electrical panel, we recommend using a certified electrician to install your GFCI/RCD breaker and to connect your spa to the electrical panel in your home with the appropriate wire gage according to the applicable electrical code. Make sure the 230V~GFCI/RCD breaker is in OFF position until you have completed step 4 and the spa is filled with water.
2. Remove the access panel at the end of the spa to expose the pumps and the electronics box. Check that the union connections of the pumps and water heater manifolds on the electronics box are tight. Vibrations during transport can loosen them. Do not overtighten these unions with pliers. You could crack or damage them. We recommend checking these union connections regularly. The vibrations of the pump can loosen them and cause a leak. Make sure the guillotine valves are in the open position and the shutoff valve on the drain valve is closed.
3. To fill your spa, remove the cover, the frame and the filter cartridge basket. Then remove the cartridge by turning counterclockwise. If your feed water contains metals, such as iron, we recommend attaching a prefilter to the garden hose. This will help remove metals from the water and make starting easier. Place your garden hose in the threaded hole where the filter cartridge is located and start filling your spa through this hole. This will free the air pockets in the water lines and facilitate priming of the pump. Fill your spa up to about 6 inches (15 cm) from the edge.
4. When the spa is filled with water, turn your 230V~GFCI/RCD breaker to the ON position. The electronic system will switch on. It will take a few minutes for the electronic parameters to be

checked and for the spa to be operational. .

5. When powering up, the temperature will be to a factory preset. Press one of the temperature setting arrows to set the desired temperature; press the up arrow to increase the set temperature or down to decrease it.

### **IMPORTANT**

If your set temperature has dropped during use, the water heater may not start automatically, depending on its temperature reading cycle. Your spa automatically checks the water temperature for one minute, every hour, regardless of your use. This is when it will raise the temperature of the water if it has dropped in the last hour.

## **SPA WATER BALANCE**

### **GENERAL OVERVIEW**

- The reliability and longevity of your spa support equipment are directly related to how well water quality is maintained!
- The small volume of water in your spa is easily affected by the introduction of oils, lotions, perspiration and chemicals. It is imperative that you give your spa regular attention to maintain clean, safe and balanced water to prevent premature damage and/or failure (corrosion/calcification) to the support equipment.
- Maintaining proper spa water balance and sanitizer levels is extremely important. Neglected hot water will allow bacteria to quickly spread.
- The mineral content of spa water increases due to water evaporation, sanitizers and other chemicals. If the mineral concentration, particularly calcium, becomes too high, the minerals will literally “drop” or precipitate out of the water and deposit on the spa walls, plumbing, jets, in the filter and on the heater element
- It is very important that pH be checked frequently and maintained in the recommended range as indicated in the chart WATER BALANCE SUMMARY.

- It is also very important that Total Alkalinity (the ability of the water to resist a change in pH) be maintained in the recommended range as indicated in the chart WATER BALANCE SUMMARY.
- Although there may be two identical spa models right next door to each other, the maintenance requirements will be different, dependant on such factors as:
  - bather load
  - frequency of use/quantity of bathers
  - different body chemistry
  - sun vs. shade
  - temperature

For these reasons, it is very important to develop proper spa water maintenance habits and follow your retailer's recommended water maintenance procedures.

### **WARNINGS**

- Never pre-mix chemicals with each other prior to adding to spa water.
- Add only one chemical to the water at a time.
- Always add chemicals to water and not vice-versa.
- Chemicals may be corrosive, so handle with care and store in a cool dark place.
- Never smoke near chemicals as most are flammable
- Ensure any spilled chemicals are carefully cleaned up immediately.
- Always have the POISON CONTROL telephone number handy in the event of an emergency.
- Keep chemicals out of children's reach

- Wear safety glasses and gloves when handling chemicals.

## **AFTER INITIAL WATER FILL**

1. Make sure the spa water is circulating and above 68°F (20°C)
2. Add a sequestrant (stain and scale controller). Allow water to circulate for an hour before adding anything else to the spa water.
3. Add a shock / oxidizing agent.
4. Add sanitizing tablets (Bromine or Chlorine)

## **WATER CHEMISTRY - Definitions**

### **DEFOAMER**

Removes foam build-up from the water surface. At best, this is a temporary remedy, as excessive foam is merely a symptom of improper water balance (typically high organic residue and/or high pH and/or soap presence).

### **SEQUESTERANTS** (Stain and Scale Controllers)

Prevents metals and minerals from attacking the spa shell and other components in contact with water.

### **TOTAL ALKALINITY**

The amount of carbonate, bicarbonate and hydroxide compounds present in the water that determines the ability or capacity of the water to resist change in pH. Also known as the 'buffering' capacity.

### **BROMAMINES**

Are formed when bromine destroys nitrogen-bearing organic matter. Unlike chloramines, bromamines don't cause eye irritation, however, when allowed to go unchecked, will cause an objectionable odour.

### **TWO-PART BROMINE**

Composed of a liquid or powder component introduced manually into the water on a weekly basis, and a granular component that is added daily or as the spa is used.

### **ONE-PART BROMINE**

Also available in puck/tablet form, is another type of oxidant/biocidal agent, and is introduced into the spa water via a brominator. Recommended bromine residual level is 3.0 to 5.0 ppm.

### **CHLORINE**

In granular, liquid or puck/tablet form, is an oxidant and biocidal agent. It is very effective and fast acting. Recommended chlorine residual level is 3.0 to 5.0 ppm.

### **CHLORAMINES**

A compound formed when chlorine combines with nitrogen or ammonia present in the water. When allowed to go unchecked, it causes eye and skin irritation and is indicated by a strong chlorine odor.

### **SHOCK**

The practice of adding an oxidizing agent to spa water to destroy ammonia, nitrogenous and organic contaminants (chloramines and bromamines).

### **CALCIUM HARDNESS**

The calcium portion of the total alkalinity which represents 70 to 75% of total hardness. Calcium concentrations determine whether water is 'soft' - too little calcium, or 'hard' -too much calcium.

### **TOTAL DISSOLVED SOLIDS (TDS)**

A measure of the total amount of dissolved matter in the water (calcium, carbonates, bicarbonates, magnesium, metallic compounds, etc.)

### **PPM**

Abbreviation for 'parts per million', the unit of measurement used in chemical testing which indicates the parts by weight in relation to one million parts by weight of water. Essentially identical to the term mg/L (milligrams per liter).

### **CARTRIDGE FILTER CLEANER**

Dissolves grease and cleans cartridge filters.

### **pH**

A logarithmic value expressing the relative acidity or basicity of a substance (such as spa water) as indicated by the concentration of hydrogen ions. PH is expressed as a number on a scale from 0 to 14, where 0 is the most acidic, 1 to 7 being acidic, 7 considered neutral, 7 to 14 being basic, and 14 being the most basic. The ideal range for spa water is 7.0 ppm which is neutral pH.

### **pH-**

Lowers the pH level of the water.

### **pH +**

Increases the pH level of the water.

### **ALKA +**

Increases alkalinity.

### **ALKA -**

Decreases alkalinity.

**TEST KIT** – used to monitor specific chemical residual or demands in the water. May be in the form of litmus strips or liquid drops.

## WATER BALANCE SUMMARY

<b>SANITIZER (ppm )</b>	<b>MINIMUM</b>	<b>IDEAL</b>	<b>MAXIMUM</b>
Chlorine	1.0	3.0 - 5.0	5.0
Bromine	2.0	6.0 - 10.0	10.0
<b>CHEMICAL</b>			
PH	7.0	7.0	7.8
Total Alkalinity(TA)	80	80 - 120	180
Calcium Hardness	150	200 - 400	500 - 1000



# **ROUTINE SPA MAINTENANCE**

## **DAILY**

1. Test water adjust accordingly.
2. Ensure proper water level is maintained.

## **WEEKLY**

1. Test water adjust accordingly.
2. Add sanitizer if needed
3. Add sequestrant (stain and scale controller)
4. Remove and rinse off cartridge filter with garden hose and reinstall
5. Add Shock / oxidizing agent

## **MONTHLY**

1. Soak your filter cartridge in a filter cartridge cleaning solution.
2. Rinse thoroughly
3. Allow to dry
4. Re-Install filter cartridge

## **QUARTERLY\***

1. Turn off the GFCI breaker
2. Drain hot tub
3. Clean the acrylic shell surface with a non-abrasive cleaner designed specifically for acrylic surfaces
4. Rinse the shell and vacuum out any cleaner left
5. Fill the spa
6. Turn on the GFCI breaker

\* If the outdoor temperature is around or below 32°F (0°C) it is suggested that you wait for a moment when the temperature is warmer for an extended period of time.

A spa should be drained every 8-12 weeks, depending on size and usage. If your hot tub is used daily or by a large number of bathers, the water should be drained more often.

# WINTERIZATION

If you choose not to use your spa during the winter, you must continue to maintain it until closing. Keeping the water clean longer helps to minimize dirt build-up and bacteria formation and thus avoid any risk of possible contamination. To protect the equipment from frost and keep the water clear, never stop the filtration system before closing the spa.

It is recommended to contact a professional to winterize your spa and thus avoid frost damages caused by faulty winterization. Any damage or failure due to improper preparation for winter storage is not covered under warranty.

## PROCEDURE

### TUB DRAINING

1. First, operate the pumps and pour two (8) cups of degrease made for spas' pipes into the spa.
2. Run the pumps for 1 hour (or whatever amount of time required per degreaser instructions).
3. Turn off the GFCI breaker.
4. Drain the spa using one of the following methods: With a submersible pump or by gravity using the drain hose; connect your 1 ½" drain hose to the drain enclosed behind the front panel.

### PREPPINGS

1. Remove the cartridge (s) from the skimmer and rinse with clean water. Soak them in the cleaning product. Rinse them and let them air dry.
2. Store them for the winter. If they are no longer good, please take the information on the cartridge, such as the size, and take pictures of them before throwing them away.

3. Remove all adjustable jets.
4. Leave the headrest/pillows in place. Clean the shell with an acrylic cleaner.
5. Make sure that the guillotine valves on each side of the heating element and in front of the pumps are open.

## **PIPING DRAINAGE**

1. You must use a vacuum cleaner or blower that has sufficient power and has a output hose of at least 2" inside diameter
2. Blow into all the hoses connected to any pumps to properly drain the jets into the tub.
3. Empty the tub from the water that came from blowing in the pipes.
4. Repeat steps 2 & 3.
5. Vacuum from every jets body to extract as much water as possible.
6. Vacuum the remaining water in the tub.
7. Vacuum skimmer orifices and drains.
8. Do not forget to put the skirt panels back in place and screw them tight.
9. Close the circuit breaker inside the house (electrical panel).
10. Pour non-toxic antifreeze into each hole of the skimmer until the antifreeze exits through the drains inside the spa.
11. Dry the shell.
12. Vacuum the main drain for the spa for about 1 to 2 minutes.

## **WINTER PROTECTION**

When winterization is completed, it is advised to reinforce the spa cover and put a waterproof tarpaulin over the whole spa to prevent water infiltrations.

# POWER UP & BREAKER SETTING



**IMPORTANT** Please read the following before starting the device.

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

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

Turn on the breaker.

## in.flo dry-fire protection

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

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

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

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

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

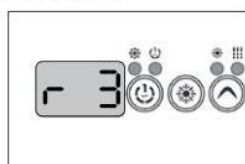


### Lamp test

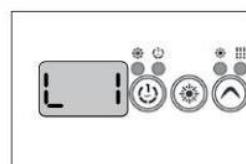
All segments and LEDs light up.



### Software number



### Software revision

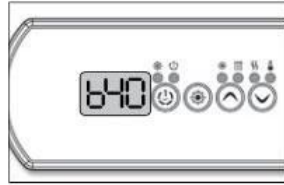


### Low-level selected

Low-level selected from the low-level menu.

The tables below indicate the typical value of b for different GFCI/RCD ratings.  
Choose the one that corresponds to your breaker.

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



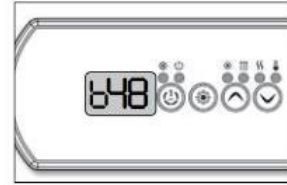
**in.yj**

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



**in.ye et in.yt**

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



**in.xe**

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

\* Only available on in.yj-3.

# START-UP & USING THE KEYBOARD

in.k1000+ keypad layout





### Sleep mode

Touch the screen to exit sleep mode. 3 minutes after the last pump is turned off, the screen will shut off if there is no touch activity.

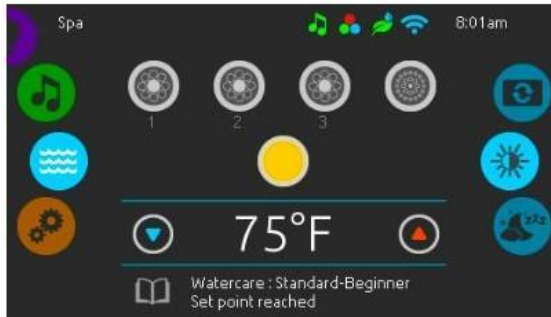
Then Follow the instructions on the screen to access the main screen.



### 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.





## Start or stop accessories

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



## Notifications

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

### Notification icons

#### in.touch:

- Indicates that the in.touch module is detected and connected to a Wi-Fi network.
- A red cross indicates that the in.touch module is detected but is not connected to a Wi-Fi network.
- An animated icon indicates that the in.touch module is connecting to a Wi-Fi network.

For more information about the in.touch, refer to the Wi-Fi section.



#### in.clear:

- The icon is green when the in.clear is generating bromine.
- The icon is grey when the in.clear is not generating bromine.
- A red cross indicates that the in.clear is turned off.

For more information about the in.clear, refer to the in.clear functions section.



#### in.stream 2:

- The icon is green when the in.stream 2 is on.
- A red cross indicates that the in.stream 2 is turned off.

For more information about the in.stream 2, refer to the in.stream 2 functions section.



#### in.mix:

- Indicates that an in.mix system is detected.

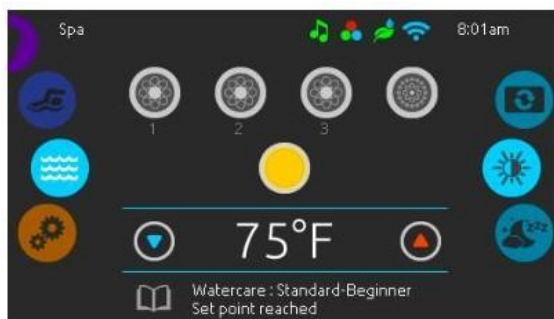
For more information about the in.mix system, refer to the in.mix functions section.



## Water temperature

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

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.



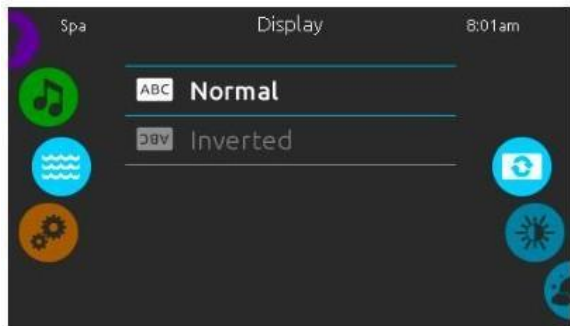
## Spa menu

From the home page you can access the following:

- *swim (if configured)*
- *in.clear (if installed)*
- *in.stream 2 (if installed)*
- *in.mix (if installed)*
- *Spa menu*
- *Settings*

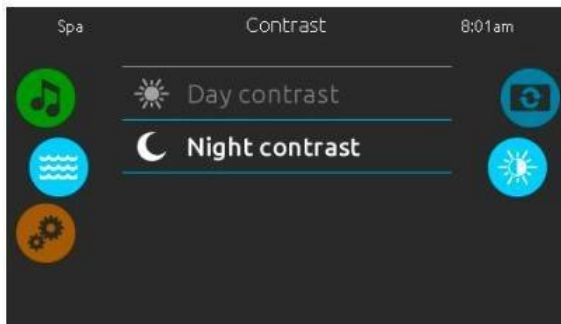
To select an option, slide the left wheel up or down until the desired icon menu is highlighted in the middle.

On the right side is a menu for access to the Display and Contrast pages.



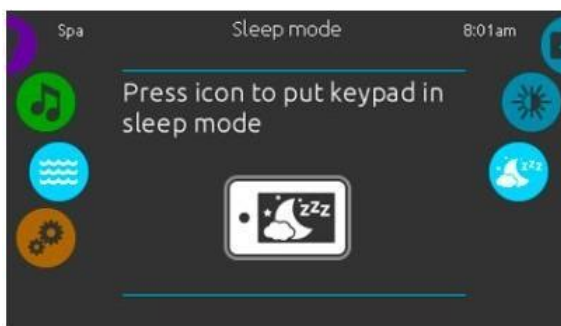
### Display page

Use this page to change the display orientation.



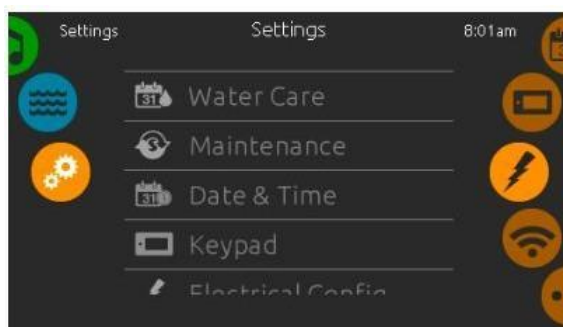
### Contrast page

Use this page to change the display contrast.



### 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.

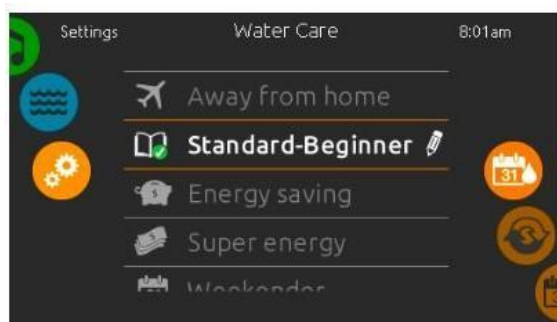


## Settings

In the Settings page you can access the following:

- *WaterCare*
- *Maintenance*
- *Date & Time*
- *Keypad*
- *Electrical Config*
- *Wi-Fi*
- *Miscellaneous*
- *About*

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



## Water Care

The Water Care page will help you set up your ideal filtration and heating settings. Choose between *Away from Home*, *Standard-Beginner*, *Energy Savings*, *Super Energy* and *Weekender*, depending on your need. Touch the Water Care name to choose your setting. A green checkmark will appear on the selected icon to confirm your choice.

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

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

The filtration schedule shown on the in.k1000+ screen will apply to the main filtration pump, most likely pump 1. If your spa uses a circulation pump configured to run 24 hours, the screen will show you the purge setting instead of filtration. The purges are pre-programmed for a fixed number of minutes, therefore the duration will be set to N/A on the screen and only the start time can be modified.

\* Default pack value



## Water care modes



### Away:

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



### Standard-Beginner:

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 Savings:

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.



## Modifying schedules

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.

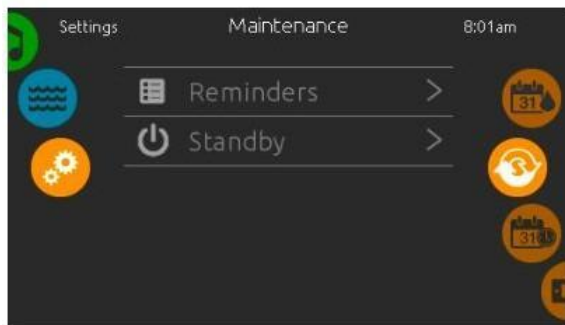
Touch the Economy tab to change the economy setting and Filter cycle tab for the filtration settings (or schedules). You can add economy or filtration schedules by touching the orange line labelled « Add Filter cycle » or « Add Economy cycle ».



To delete a schedule, touch the garbage can icon at the right end of the desired line. Confirm your action when prompted.

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. When changes are done, press "confirm". If you don't want to keep any changes, press "cancel" or use the calendar icon to go back. Ensure that you have selected the desired Water Care mode in the main Water Care menu.

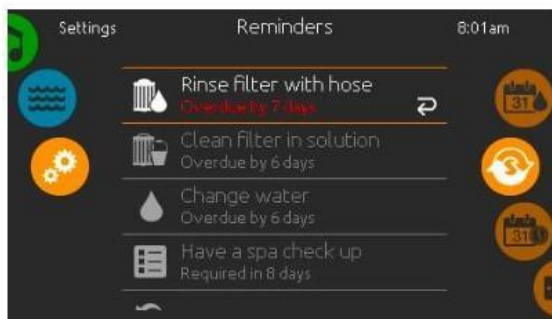


## Maintenance

From the Maintenance page you can access the following:

- *Reminders*
- *Standby*

To access the desired option simply touch the corresponding menu item.



## 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.

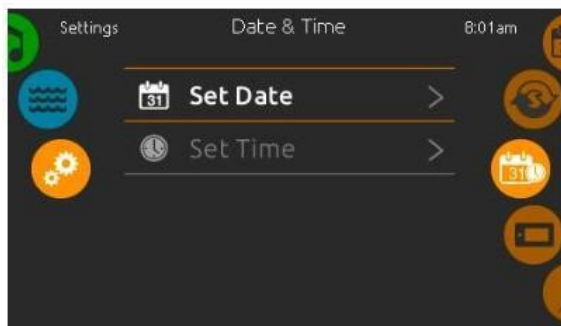
You can also use the option *Reset Reminders* to reset all the reminders.



## 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.



## Date and Time

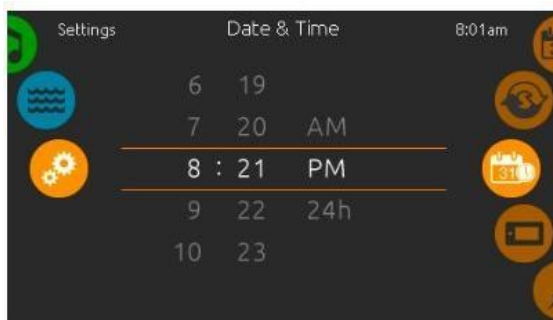
Use this page to change Date/Time settings.



## Set date

Here you can adjust the year, month and day.

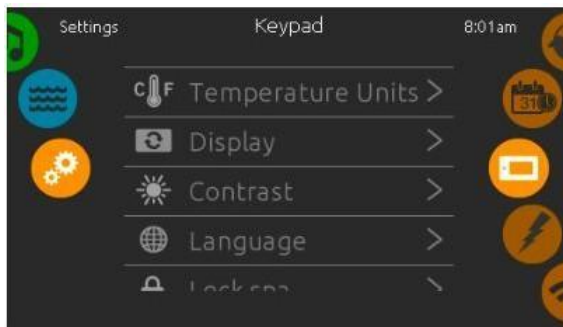
Simply swipe up and down the column you want to change and select the desired value. When you are done, touch the calendar icon at the right of the screen.



## 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

In the keypads page you can access the following:

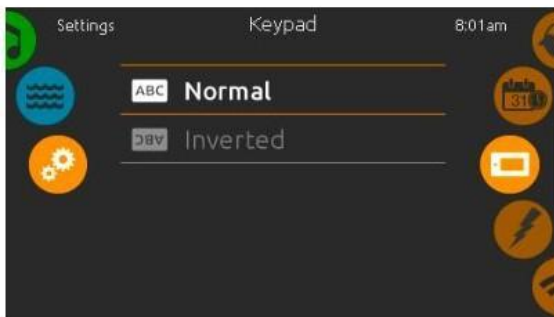
- *Temperature units*
- *Display*
- *Contrast*
- *Language*
- *Lock spa (optional)*
- *Keypad color (optional)*

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



## Temperature units

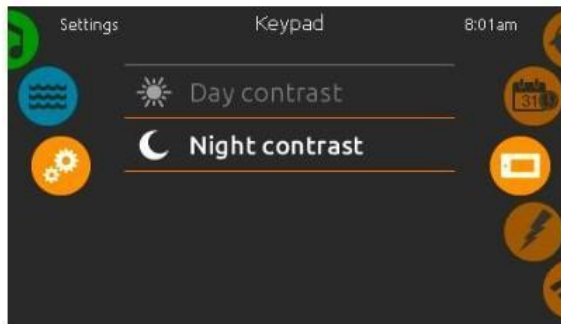
Choose the desired units to display temperatures.



## Display page

Use this page to change the display orientation.





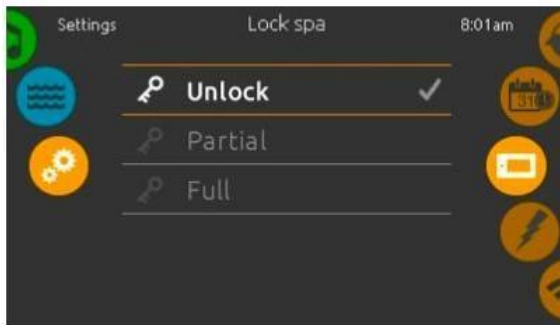
### Contrast page

Use this page to change the keypad contrast.



### Language select

Use this page to select the display language of the in.k1000+ keypad.



### Keypad lock/unlock (optional)

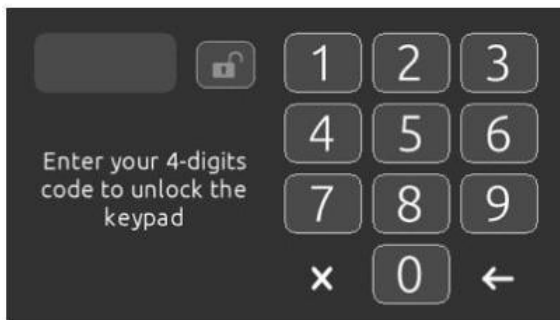
When this option is enabled, the user can partially or completely lock the keypad. When the user wants to lock the keypad he is asked to select a 4-digit code. The same code will be needed to unlock the keypad. Next time he wants to lock the keypad, he will be prompted again to select a 4-digit code (same functionality as a Safe in a hotel room).

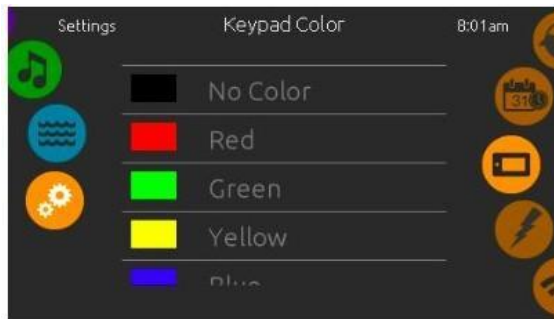
The keypad can be unlocked with a universal unlock code (3732) or by a reset of the keypad.



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.





### 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.



### Electrical Configuration

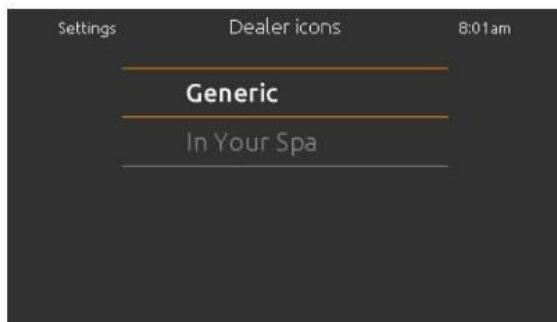
**Please do not make any changes in this section unless you are a qualified electrician.**

In this section, you can change the low-level configuration, as well as modify the number of phases and the input current value\*. Once the modification done, hold the Apply button for five seconds.

Please note that if there are two spa packs in the system (i.e. a SwimSpa installation), the master's unit's chosen unit configuration must support a slave unit. If after rebooting the chosen configuration does not support SwimSpa installations, the in.k1000+ will return (after approximately 45 seconds) to this configuration menu and prompt the user to select a configuration number again.

\* Depending on the pack configuration, a code may be required to modify the low-level number. This code is 5555.





### Select logo

After confirmation, the keypad will reset to reconfigure the system. You will be asked to select the custom icons used in the sleep mode.



## Wi-Fi (in.touch)

This page allows you to connect your in.touch module to a Wi-Fi network or to change its network.

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

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

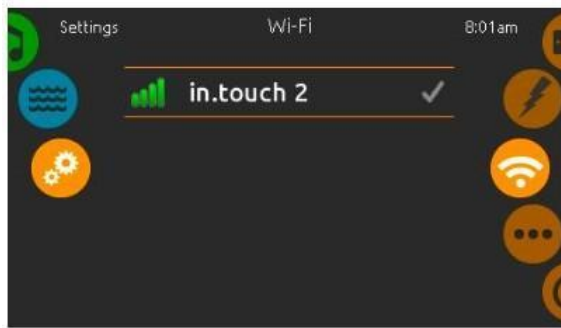
Swipe Up or Down the list to select your network.

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

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

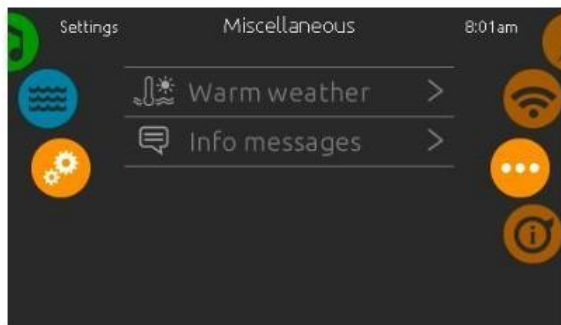
Once the in.touch module is connected to a Wi-Fi network, a green check mark will appear in the Wi-Fi menu and the network name will appear in the *Settings* menu.





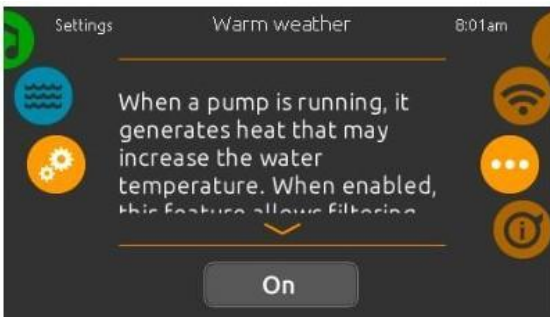
### Wi-Fi (in.touch 2)

When a in.touch 2 is detected, this network will appear.



### Miscellaneous

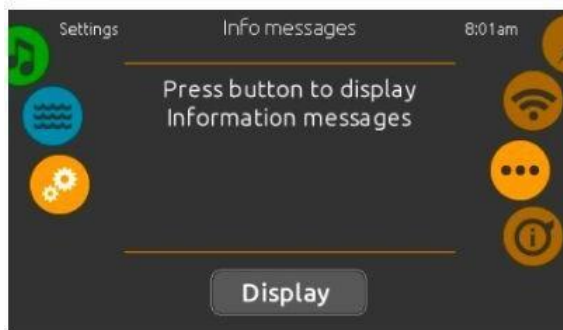
This menu gives access to modify the Warm Weather option and info messages in the media center.



### Warm weather

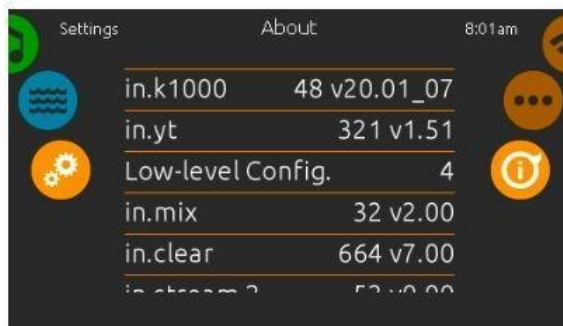
When pumps are running, they produce heat that may increase your water temperature. "Warm Weather" option gives you the option to bypass the pack filtration over-temperature feature. When Warm Weather is "OFF" the filtration over-temperature is disabled and your spa filtering will continue even if the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

This section shows information about the in.k1000+ software number and the revision numbers of the different components of your system.



## Wipe screen

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



## Swim functions

This menu is available only 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)*

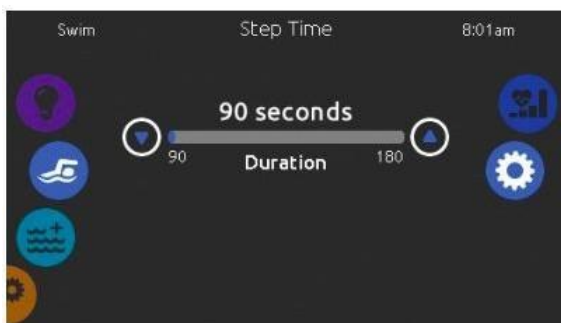


## Warm up & Cooldown

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.

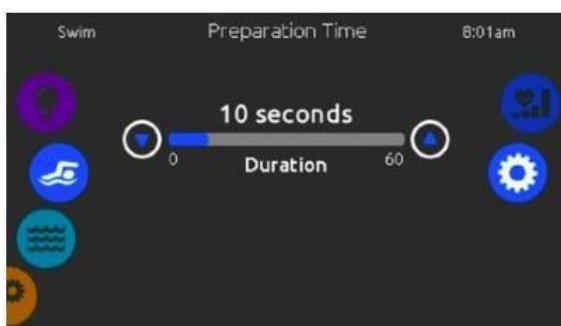
Note that Warm up and Cooldown settings apply to all training drills.





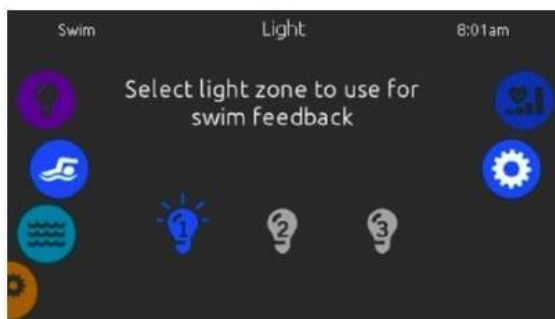
### Step time

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



### 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.

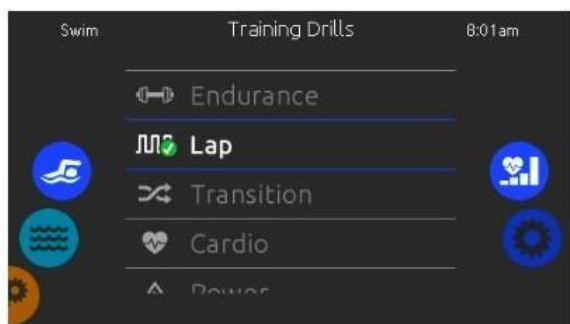


### Light (requires an in.mix installed)

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 at low intensity.



### Personalized:

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



### Personalized workout edits

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

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.

Workout name

John

q w e r t y u i o p

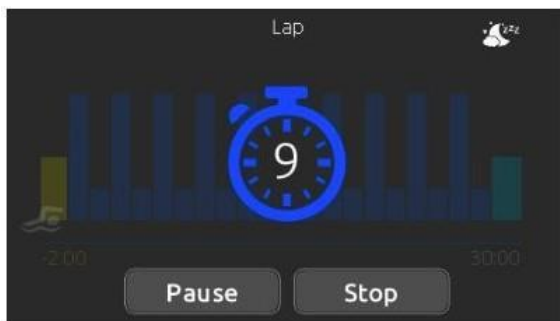
a s d f g h j k l

z x c v b n m

?123

Cancel

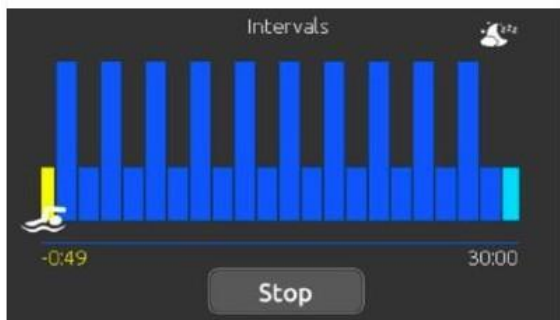
Personalized training drills can also be renamed by clicking the pencil icon located to the right of the workout name.



## 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.

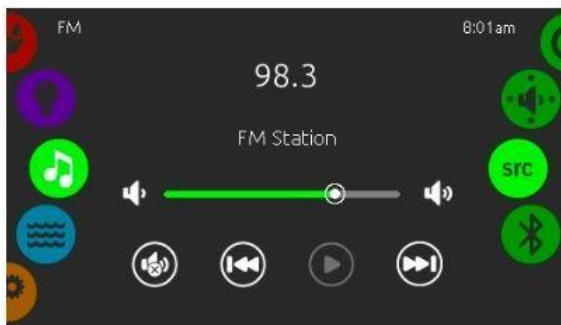


Once the warm up timer reaches zero, the workout session begins and will follow the selected training drill, shown on screen. The workout timer on the right will start to decrease as the elapsed workout time, displayed to the left of the screen, increases.

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.stream 2 functions

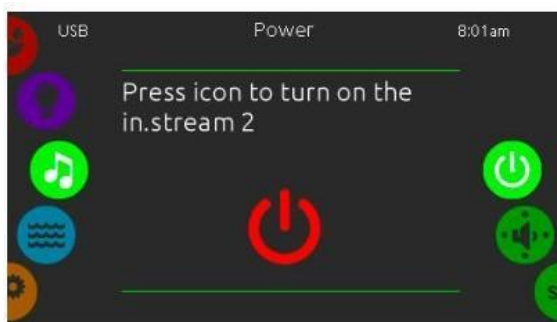
This menu is available only if the in.stream 2 audio station is detected in the spa accessories.

The audio page will allow you to control the active audio source. Note that only the functions that apply to the selected source will be available. From this page, you can also access the following:

- *in.stream 2 on/off*
- *speaker settings*
- *audio source selection*
- *disconnect bluetooth*

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

For more information about the in.stream 2 audio station, please refer to the in.stream 2 techbook.



## in.stream 2 power

To turn the in.stream 2 on or off, tap the icon located in the center of the screen.

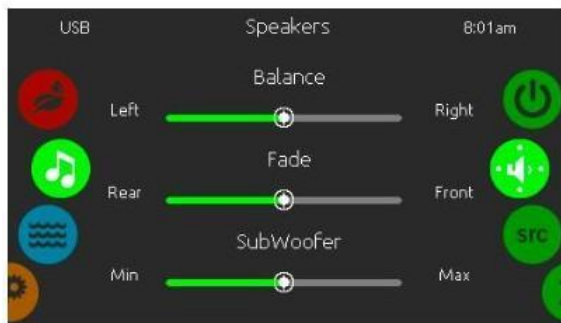


On (red)



Off (green)

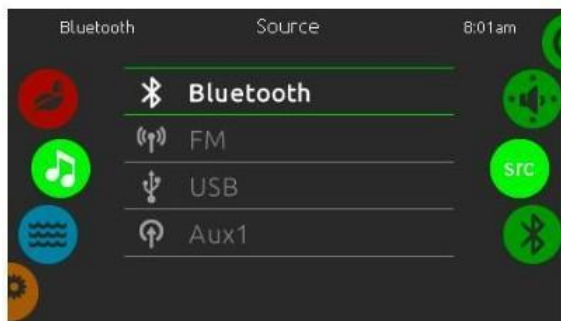




### Speakers settings

Move the sliders to adjust the Balance, Fader and Subwoofer settings.

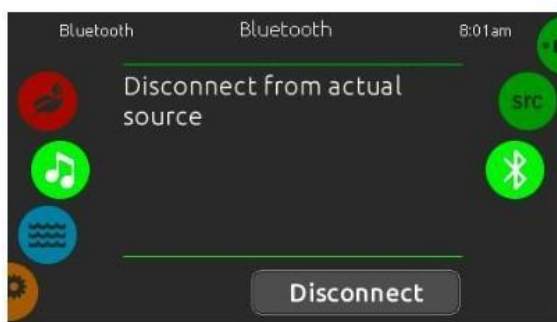
The Fader and Subwoofer sliders will only appear in the Speakers menu if the corresponding speakers are available on the in.stream 2.



### Source menu

To change the audio source, simply tap on the desired one.

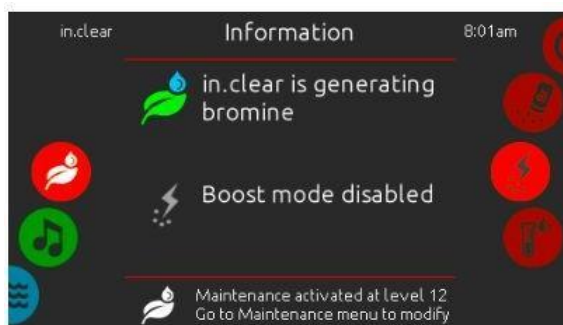
Note that only the sources available on the in.stream 2 will be displayed in the source menu.



### Disconnect Bluetooth

If a device with Bluetooth technology is connected to the in.stream 2, you can disconnect it by pressing the Disconnect button 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.clear functions

This menu is available only if the in.clear is detected in the spa accessories.

The in.k1000+ keypad can be used with the in.clear sanitation system.

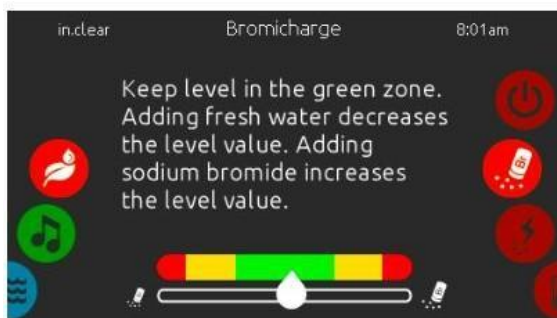
The *in.clear* menu allows you to configure your maintenance settings and boost levels. The main *in.clear* menu shows the current status of the sanitation system, whether it is on and if it is generating bromine or not.

For more information about the in.clear, bromine levels and other settings, please refer to the in.clear user manual.



## in.clear on/off

A 5 second press on the power down key is required to turn off the in.clear. This prevents accidental deactivation of the sanitation system.



## Bromicharge™ level

The Bromicharge page allows you to see the current level of sodium bromide in the water. Ideally, you should aim to be near the center of the green area of the gauge. Follow the instructions given on the screen to increase or reduce the level.

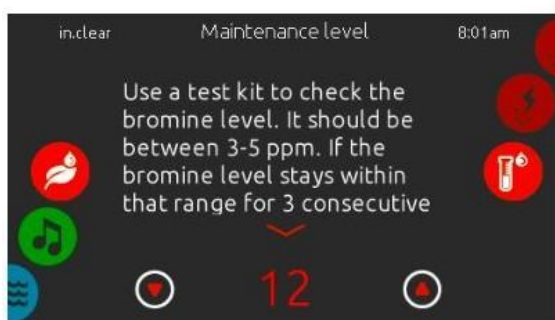
Note that it may take a few seconds to obtain a reading from the in.clear, during this time the wait icon is displayed on the gauge.

There are no settings to change on this page, it is solely informative.



### Modify the Boost level

The Boost level is used to set the amount of boost required. As a rule, enter the number of bathers in the bath. Boost mode is automatically activated 5 minutes after starting a pump.



### Modify the maintenance level

The maintenance level can be changed and must be tested with a bromine level tester. The tester should report between 3-5 ppm. If the bromine level is within this range for 3 consecutive days your maintenance level is correctly adjusted. If you adjust the maintenance level by more than 2, you will be prompted to confirm.



# TROUBLESHOOTING GUIDE

The list below shows the various error messages that may appear on the main screen.

Code	Message
HL	High Limit circuit has tripped!
FLO - L01 FLO - L02 FLO	FLO condition - Check filter, pump, blockage, air lock and water level
NO FLO	Persistent NO FLO, all off - Check filter, pump, blockage, air lock and water level
HR	A hardware error was detected (Relay stuck)
OH	Spa temperature is too high
Pr	Temp probes or detection circuit are defective
AOH	Elevated internal temperature
FLC	The pressure switch is closed
SP in	Input voltage issue
RH NC	Comm. error between in.xm2 - in.therm
RH ID	in.xm2 and in.therm incompatible
SC ER	Error detected during the learning mode
F1	in.xm2 Fuse # 1 is blown
F2	in.xm2 Fuse # 2 is blown
F3	in.xm2 Fuse # 3 is blown
ER1	SwimSpa config. : slave unit is missing
Hr	Hardware error was detected (Thermal fuse)
UPL	The spa pack does not have valid software. Please insert valid in.stick to reprogram spa pack.
CFLO	No Flow condition
HiBr	Add fresh water to the spa
HiBr	Add fresh water to the spa
LoBr	Add BromiCharge to spa water
NoBr	Add BromiCharge to spa water
Comm	Verify cable connections
Supp	Connect power cord to 240 V source



# **TITAN SPAS**

**760 Olive-Paquette  
(Suite # 200) Lachute QC.  
Canada J8H 4N6  
[info@titanspas.ca](mailto:info@titanspas.ca)**