Start Up Guide - Maple Spas

M-321
M-320 (Saint-Laurent)
M-420 (Montmorency)
M-520 (Terre-Neuve)
M-620 (Blainville)
M-720 (Ottawa)
M-820 (Trois-Rivieres)

The purpose of this guide is to provide you with a quick setup. For more detailed instructions plus find the owner's manual via the resource section on our website.

www.ArcticHotTubs.com
(password: arctichottubs)

Step 1: Filling your new Maple Spa

1. Depending on your model, your new Maple Spa may be equipped with one or two filter weirs. Fill your spa with a garden hose by removing one weir and placing the hose in your filter canister. **(img 1.1)**
2. Once the water level has reached the bottom of the headrest, turn off the water and remove the hose from the spa.**(img 1.2)**

(img 1.1)

(img 1.2)

Step 2: Installing the filter(s)

1. Your new Maple Spa uses one or two filters depending on how many canisters your spa is equipped with. Install the large pleated filters by ensuring the filter weir(s) are removed **(img 2.1)**
2. Push the filter all the way down into the canister until it touches the bottom. Once in place, turn the filter clockwise to thread in place. Once the filter .**(img 2.2)** is in you can return the weir to its original place. Repeat this process if your spa has a second filter canister.

(img 2.1)

(img 2.2s)

NOTE: The filter weir(s) will appear to float on top of the water. This is completely normal. Once the pump(s) are engaged the weir(s) will drop below the surface of the water and start skimming.
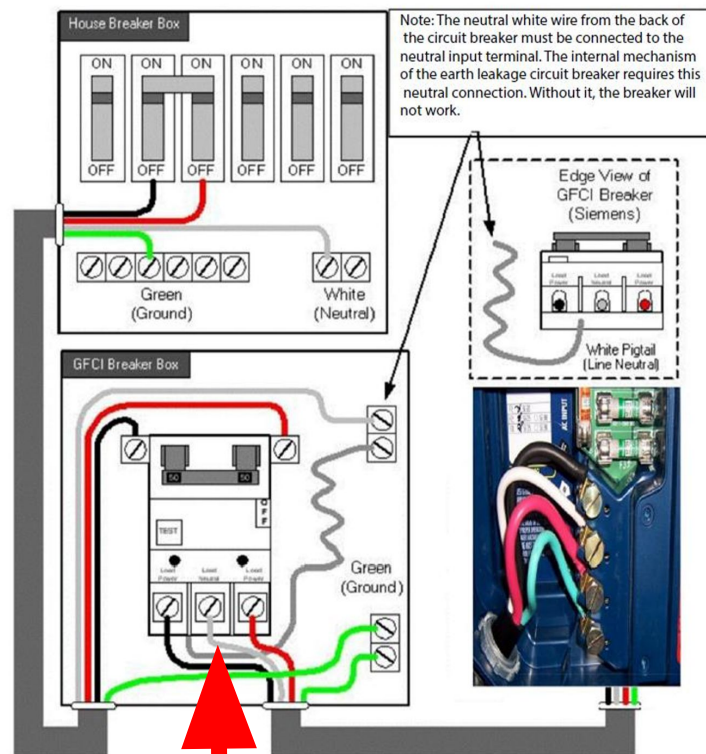
Step 3: Power ON

DO NOT turn the power on to the spa unless the unit is full. The resulting damage will not be covered under any circumstances.

Now that your spa is full, filters are in place, you are ready to turn the power on to your spa.

1. Ensure your breaker inside your main panel is turned on.
2. Locate your outside breaker box **(img 3.1)** and flip to the on position.
3. The topside display will light up, start loading the software and start heating. Depending on the temperature of the water going into the spa it may enter freeze protect mode. Pumps will cycle on and off periodically.
4. If the breaker trips immediately upon start up, verify that the neutral wire going to the spa is attached to the breaker directly **(img 3.2)**. Even Master Electricians make mistakes. See the next page for an example of improper hook up.

(img 3.1)

Note: The neutral white wire from the back of the circuit breaker must be connected to the neutral input terminal. The internal mechanism of the earth leakage circuit breaker requires this neutral connection. Without it, the breaker will not work.

(img 3.2)

**Neutral wire going to spa must be attached to the GFCI**

Step 3: Power ON continued

NOTE: If your breaker trips on the initial start up, verify that the spa is wired correctly. The most common mistake made is putting the output neutral wire (white wire going to the spa) in the wrong place. From the image below **(img 4.1)** you can see in the first illustration the output neutral must be connected directly to the GFCI and not the neutral bar.The second image shows how to incorrectly wire the output wire to the neutral bar.
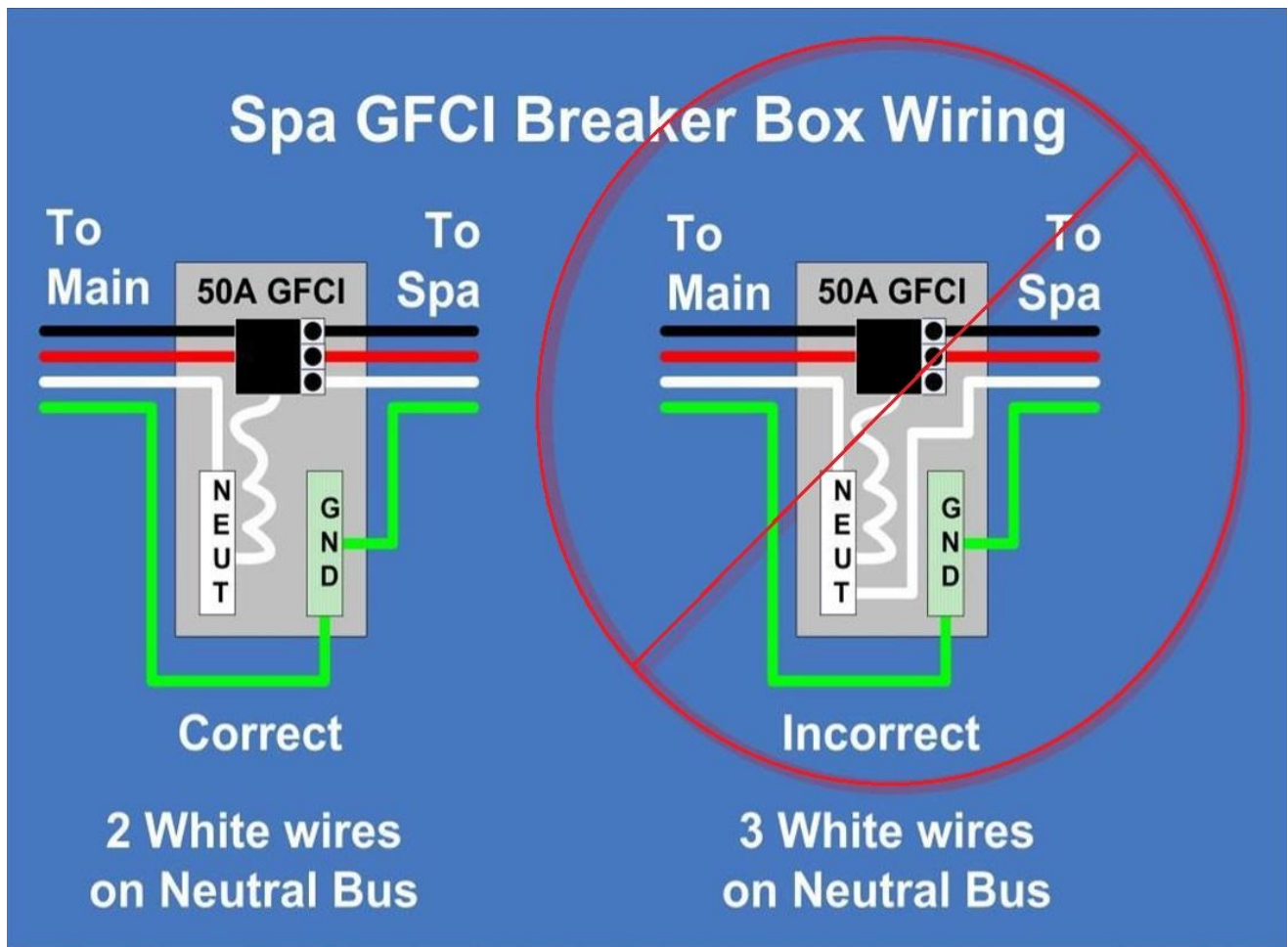
(img 4.1)
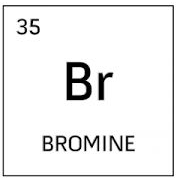
Bromine Start Up & Maintenance

Before you attempt to balance the water, the water temperature must first reach a minimum temperature of 85°F (29°C)

Step 1: Establish Correct Water Chemistry

1. Add the initial dose of **ULTRA SPA** (200 gm/1000L). Turn pumps on wait 30 mins

2. Add the initial dose of **BEST DEFENCE** (2 oz/ 1000L). Turn pumps on wait 30 mins

3. Test & adjust alkalinity. Use Bromine test strips provided. Alkalinity should be between 80-100 ppm
**note If Alkalinity is low, raise with PERFECT BALANCE.. Do not lower total Alkalinity.

4. Test & adjust pH. Use Bromine test strips provided. pH should be between 7.2 - 7.6
**If ph is high (over 7.6) adjust with ADJUST DOWN to lower.

5. With pump(s) operating add 20 gm/1000 L of **PEAK BOOST** to bather free water

6. Fill floating Dispenser with **BROMINE TABS** and fill to desired level. Level 3-4 is recommended to start

Maintenance	Frequency	Dosage
PERFECT BALANCE	As needed	Test & adjust alkalinity. Use Bromine test strips provided. Alkalinity should be between 80-100 ppm
ADJUST DOWN	As needed	Test & adjust pH. Use Bromine test strips provided. pH should be between 7.2 - 7.6
ADJUST UP	As needed	Test & adjust pH. Use Bromine test strips provided. pH should be between 7.2 - 7.6
REFRESH	After each use	**Oxidize organics by adding 1 cap of oxidizer directly to the water with pumps running. Heavy bather loads, 3 or more will require an additional cap Leave cover open for 20 mins. Close when complete
ULTRA SPA	Weekly	Add 20 gm/1000 L directly to water with the pumps running
PEAK BOOST	Weekly To be used if bromine extremely low	**Add 1 cap directly into the water with pumps running. Leave cover open for 30 mins. Close when complete **DO NOT ENTER SPA for a minimum 8 hours after adding PEAK BOOST. Retest water to ensure bromine levels have returned to safe levels**
FILTER(S) & ZORBIE	Based on usage	Ideally filters & Zorbie should last for 3-4 months. This will vary based on usage, bather loads and additional factors. DO NOT RINSE OR RING OUT FILTER(S) & ZORBIE

Chlorine Start Up & Maintenance

Before you attempt to balance the water, the water temperature must first reach a minimum temperature of 85°F (29°C)

| Chlorine |
| 17 |
| **Cl** |
| 35.453 |

Step 1: Establish Correct Water Chemistry

1. Add the initial dose of ULTRA SPA (200 gm/1000L). Turn pumps on wait 30 mins

2. Add the initial dose of BEST DEFENCE (2 oz/ 1000L). Turn pumps on wait 30 mins

3. Test & adjust alkalinity. Use Chlorine test strips provided. Alkalinity should be between 80-100 ppm
   **note If Alkalinity is low, raise with PERFECT BALANCE.. Do not lower total Alkalinity.

4. Test & adjust pH. Use Chlorine test strips provided. pH should be between 7.2 - 7.6
   **If ph is high (over 7.6) adjust with ADJUST DOWN to lower.

5. With pump(s) operating add 20 gm/1000 L of **BOOST** to bather free water

6. Fill floating Dispenser with **CHLORINE TABS** and fill to desired level. Level 3-4 is recommended to start

Maintenance	Frequency	Dosage
PERFECT BALANCE	As needed	Test & adjust alkalinity. Use chlorine test strips provided. Alkalinity should be between 80-100 ppm
ADJUST DOWN	As needed	Test & adjust pH. Use Chlorine test strips provided. pH should be between 7.2 - 7.6
ADJUST UP	As needed	Test & adjust pH. Use Bromine test strips provided. pH should be between 7.2 - 7.6
REFRESHr	After each use	**Oxidize organics by adding 1 cap of oxidizer directly to the water with pumps running. Heavy bather loads, 3 or more will require an additional cap Leave cover open for 20 mins. Close when complete
ULTRA SPA	Weekly	Add 20 gm/1000 L directly to water with the pumps running
BOOST	Weekly To be used if chlorine extremely low	**Add 1 cap directly into the water with pumps running. Leave cover open for 30 mins. Close when complete **DO NOT ENTER SPA for a minimum 8 hours after adding BOOST. Retest water to ensure chlorine levels have returned to safe levels**
FILTER(S) & ZORBIE	Based on usage	Ideally filters & Zorbie should last for 3-4 months. This will vary based on usage, bather loads and additional factors. DO NOT RINSE OR RING OUT FILTER(S) & ZORBIE

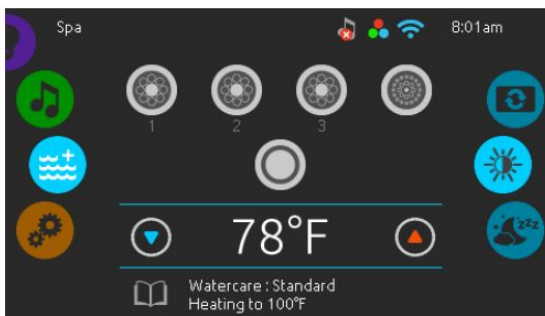# Topside Control Function

Keyboard functions

IN.K1000+ KEYPAD LAYOUT

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 messages
and reminders

interactive display
icons (main spa
functions)

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.

7

Topside Control Function *continued*

Keyboard functions
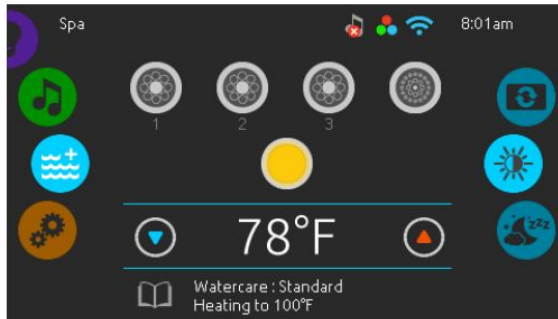
Start or stop accessories

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.
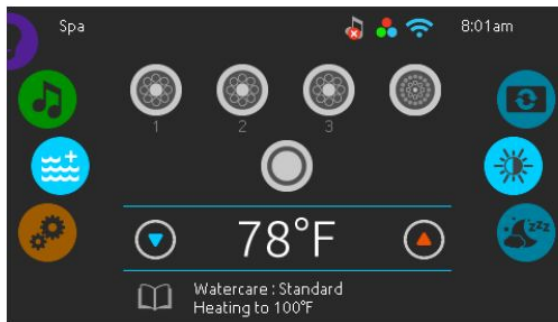
Notifications

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:
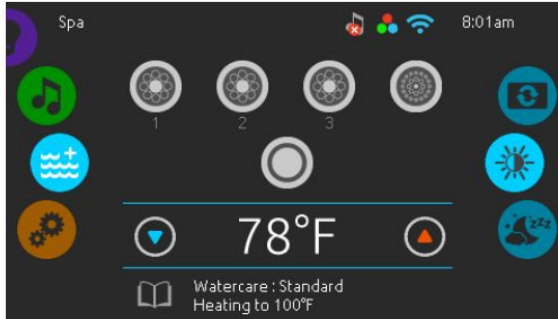- Indicates that an in.mix system is detected.

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

Topside Control Function *continued*

Keyboard functions

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.
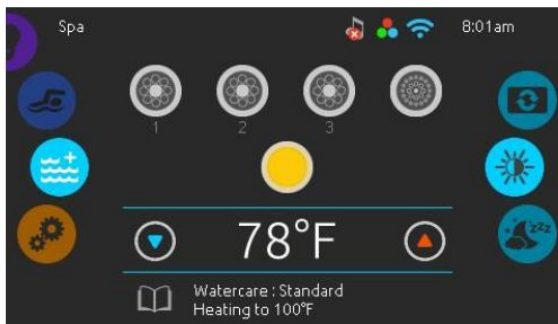
Spa menu

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.
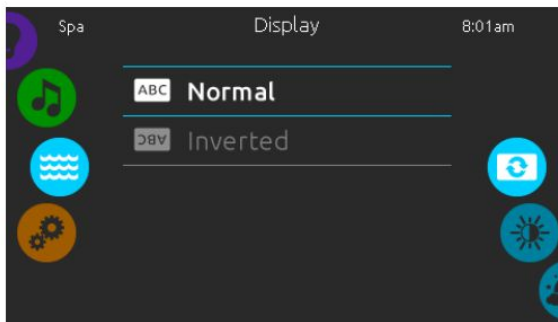
Display page

Use this page to change the display orientation.
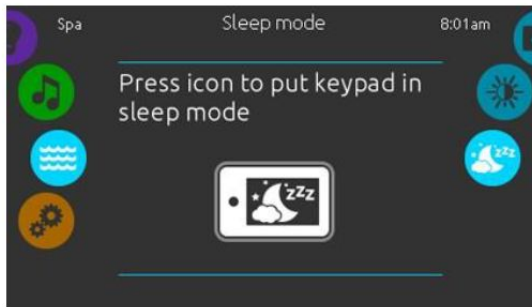
Topside Control Function *continued*
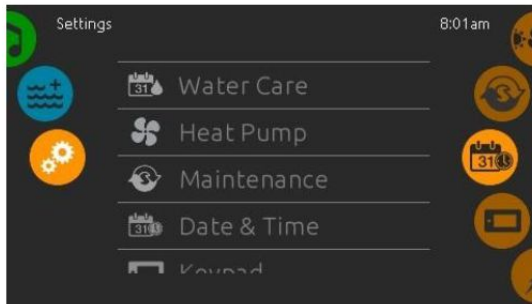
Keyboard functions
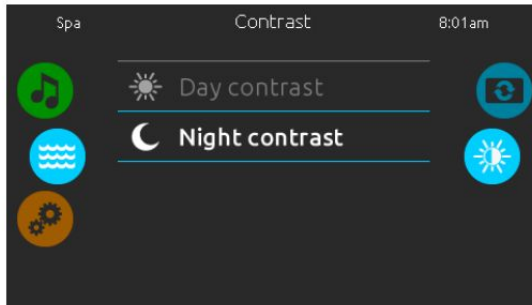
Contrast page

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

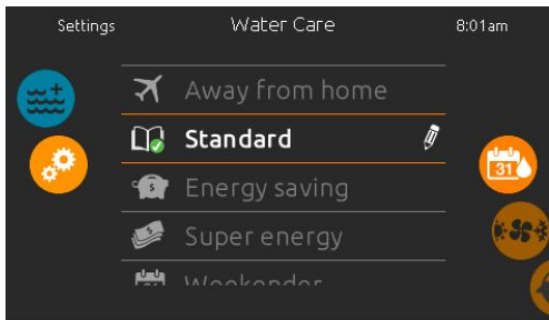In the Settings page you can access the following:
- *Water Care*
- *Heat Pump (if installed)*
- *Maintenance*
- *Date & Time*
- *Keypad*
- *Electrical Config*
- *Wi-Fi*
- *Miscellaneous*
- *About*

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

Topside Control Function *continued*

Keyboard functions

Settings	Water Care	8:01am

- ✈ Away from home
- 📖 Standard ✏
- 💲 Energy saving
- 💵 Super energy
- 📅 Weekender

Water Care

The Water Care page will help you set up your ideal filtration and heating settings. Choose between *Away from Home, Standard, Energy Savings, Super Energy* and *Weekender,* depending on your need. Touch the Water Care name to choose your setting. A green check mark 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:
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:
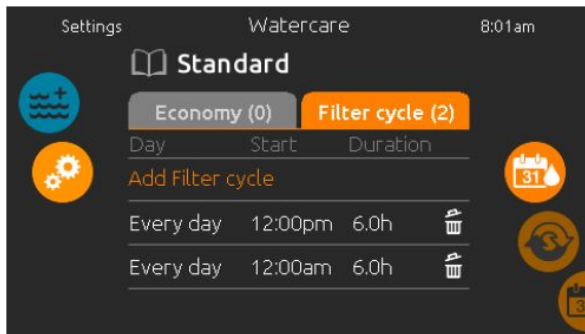The spa will always be in economy mode during peak hours, every day of the week.

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

# Topside Control Function *continued*

Keyboard functions

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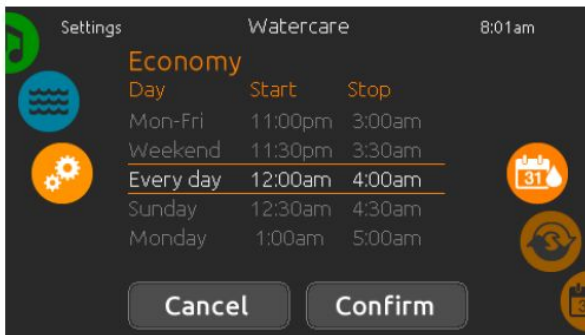
You can modify the programmed schedules by selecting one and adjusting the schedule.

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.
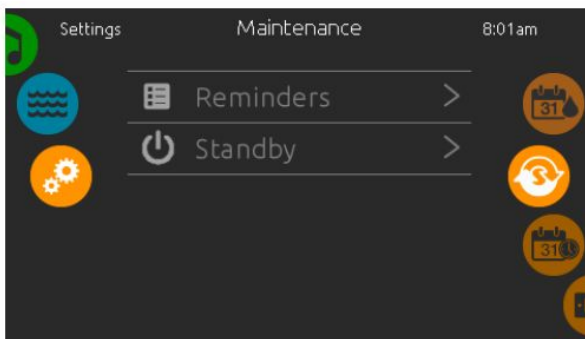
Maintenance

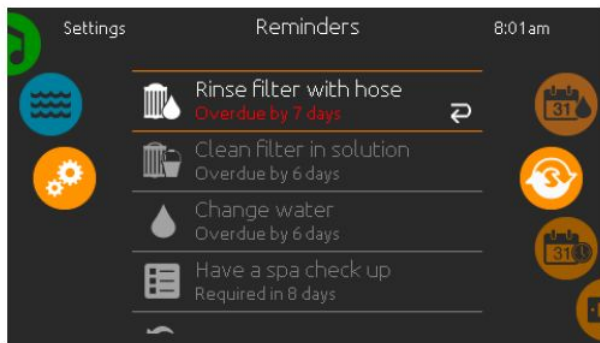From the Maintenance page you can access the following:
- *Reminders*
- *Standby*

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

# Topside Control Function *continued*

Keyboard functions

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.
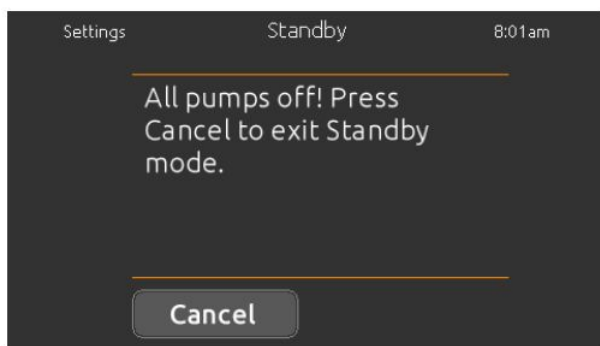
Standby

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.
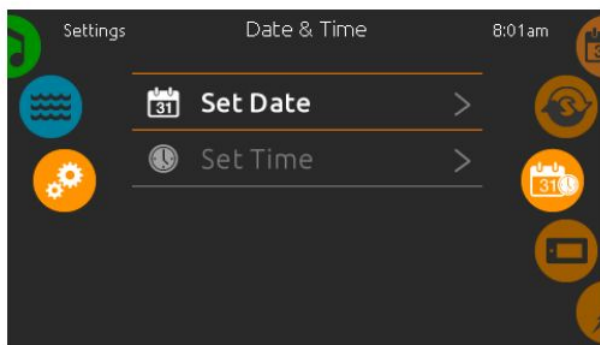
Date and Time

Use this page to change Date/Time settings.

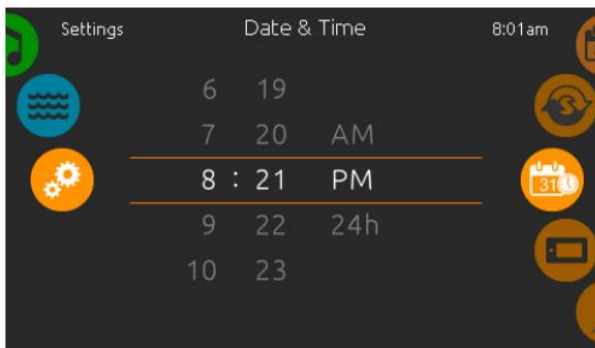# Topside Control Function *continued*

Keyboard functions

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.
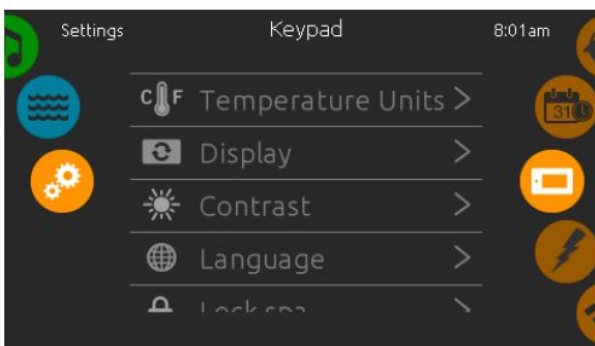
Keypad settings

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.
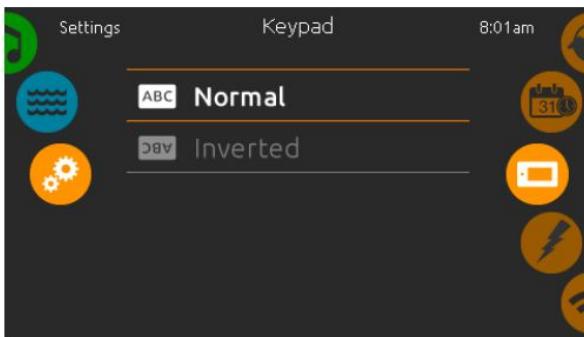
Topside Control Function *continued*
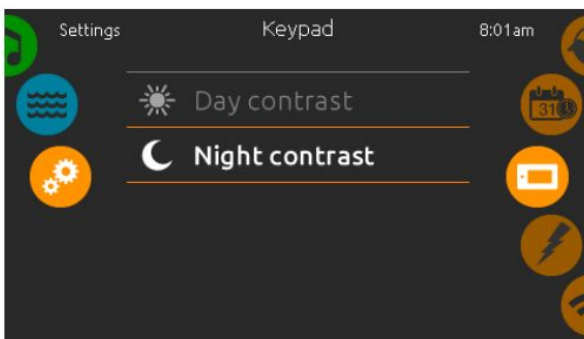
Keyboard functions

Temperature units

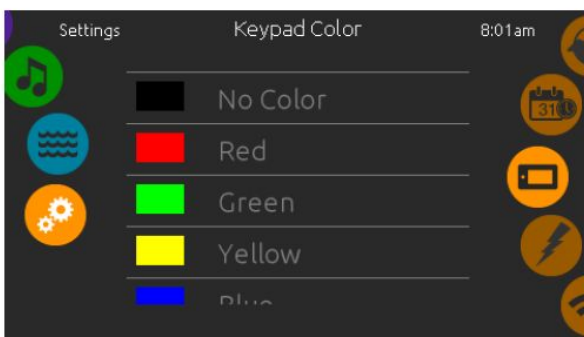Choose the desired units to display temperatures.

Display page

Use this page to change the display orientation.

Contrast page

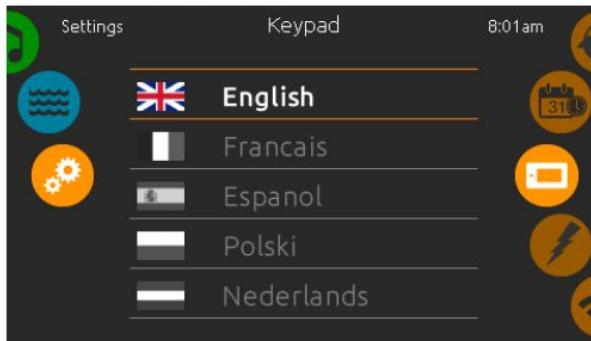Use this page to change the keypad contrast.

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.
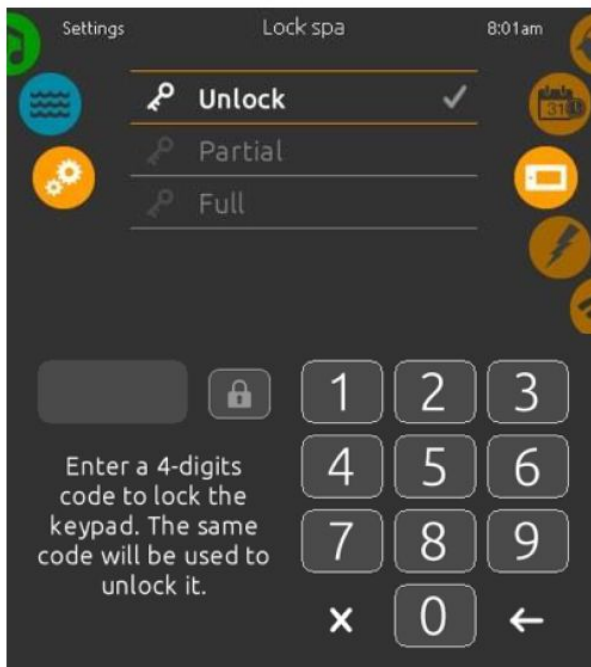
Topside Control Function *continued*

Keyboard functions

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.