

treesse

minipool

Soul



Operating and maintenance manual

READ AND FOLLOW ALL INSTRUCTIONS



We hope that the use of this spa provides you with an experience of pure pleasure.

If you have problems, contact your authorised dealer.

It is mandatory to keep the original proof of purchase (receipt/invoice etc.) in case servicing is required under warranty.

The serial number is indicated in the equipment compartment.

WARNING

REDUCE THE RISK OF ELECTROCUTION

1. Never place an electric appliance within 5 feet of the 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 the doctor before to use if pregnant, diabetic, in poor health, or under medical care.
2. Exit immediately if uncomfortable, dizzy, or sleepy. Spa heat can cause hypertermia 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 water temperature before entering.

1. Do not enter spa if water is hotter than 100° F (38° C).
2. Do not stay in spa for longer than 10 minutes.

EXPLANATION OF PICTOGRAMS



Danger! Situation presenting immediate danger, or a hazardous situation that could cause injury or death.



More info: helps the installer understand a topic better



The pictogram refers to text in another document



Ecological notes for respecting the environment

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IMPORTANT SAFETY INSTRUCTIONS

1. READ AND FOLLOW ALL INSTRUCTIONS.

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

3. A wire connector is provided on this unit to connect a minimum 8 AWG (8.4 mm²) 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. Minimum No. 6 AWG required in Canada. damage to the equipment.

4. DANGER – Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this spa unless they are supervised at all times.

5. DANGER – Risk of Injury. The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

6. DANGER – Risk of Electric Shock. Install at least 5 feet (1.5 m) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 8 AWG (8.4 mm²) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.

7. DANGER – Risk of Electric Shock. Do not permit any electric appliance, such as a light, telephone, radio, or television, within 5 feet (1.5 m) of a spa.

8. WARNING – To reduce the risk of injury:

a) The water in a spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 40°C are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

b) Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 38°C (100°F).

c) Before entering a spa, the user should measure the water temperature since the tolerance of water temperature-regulating devices varies.

d) The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.

e) Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.

f) Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

9. SAVE THESE INSTRUCTIONS.

WARNING: CHILDREN SHOULD NOT USE SPAS OR HOT TUBS WITHOUT ADULT SUPERVISION

AVERTISSEMENT : NE PAS LAISSER LES ENFANTS UTILISER UNE CUVE DE RELAXATION SANS SURVEILLANCE

WARNING: DO NOT USE SPAS OR HOT TUBS UNLESS ALL SUCTION GUARDS ARE INSTALLED TO PREVENT BODY AND HAIR ENTRAPMENT

AVERTISSEMENT : POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS PUISSENT ÊTRE ASPIRÉS, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DE PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE

WARNING: PEOPLE USING MEDICATIONS AND/OR HAVING AN ADVERSE MEDICAL HISTORY SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB

AVERTISSEMENT : LES PERSONNES QUI PRENNENT DES MÉDICAMENTS ET (OU) ONT DES PROBLÈMES DE SANTÉ DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION

WARNING: PEOPLE WITH INFECTIOUS DISEASES SHOULD NOT USE A SPA OR HOT TUB

AVERTISSEMENT : LES PERSONNES ATTEINTES DE MALADIES INFECTIEUSES NE DEVRAIENT PAS UTILISER UNE CUVE DE RELAXATION

WARNING: TO AVOID INJURY, EXERCISE CARE WHEN ENTERING OR EXITING THE SPA OR HOT TUB

AVERTISSEMENT : POUR ÉVITER DES BLESSURES, USER DE PRUDENCE EN ENTRANT DANS UNE CUVE DE RELAXATION ET EN SORTANT

WARNING: DO NOT USE DRUGS OR ALCOHOL BEFORE OR DURING THE USE OF A SPA OR HOT TUB TO AVOID UNCONSCIOUSNESS AND POSSIBLE DROWNING

AVERTISSEMENT : POUR ÉVITER L'ÉVANOUISSEMENT ET LA NOYADE ÉVENTUELLE, NE PRENDRE NI DROGUE NI ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION NI QUAND ON S'Y TROUVE

WARNING: PREGNANT OR POSSIBLY PREGNANT WOMEN SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB

AVERTISSEMENT : LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION

WARNING: WATER TEMPERATURE IN EXCESS OF 38 °C CAN BE INJURIOUS TO YOUR HEALTH

AVERTISSEMENT : IL PEUT ÊTRE DANGEREUX POUR LA SANTÉ DE SE PLONGER DANS DE L'EAU À PLUS DE 38 °C

WARNING: BEFORE ENTERING THE SPA OR HOT TUB, MEASURE THE WATER TEMPERATURE WITH AN ACCURATE THERMOMETER

AVERTISSEMENT : AVANT D'UTILISER UNE CUVE DE RELAXATION, MESURER LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN THERMOMÈTRE PRÉCIS

WARNING: DO NOT USE A SPA OR HOT TUB IMMEDIATELY FOLLOWING STRENUOUS EXERCISE

AVERTISSEMENT : NE PAS UTILISER UNE CUVE DE RELAXATION IMMÉDIATEMENT APRÈS UN EXERCICE FATIGANT

WARNING: PROLONGED IMMERSION IN A SPA OR HOT TUB CAN BE INJURIOUS TO YOUR HEALTH

AVERTISSEMENT : L'UTILISATION PROLONGÉE D'UNE CUVE DE RELAXATION PEUT ÊTRE DANGEREUSE POUR LA SANTÉ

WARNING: DO NOT PERMIT ELECTRIC APPLIANCES (SUCH AS A LIGHT, TELEPHONE, RADIO, OR TELEVISION) WITHIN 1.5 M OF THIS SPA OR HOT TUB

AVERTISSEMENT : NE PAS PLACER

D'APPAREIL ÉLECTRIQUE (LUMINAIRE, TÉLÉPHONE, RADIO, TÉLÉVISEUR, ETC) À MOINS DE 1.5 M DE CETTE CUVE DE RELAXATION

CAUTION: MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

ATTENTION : LA TENUEUR DE L'EAU EN MATIÈRES DISSOUTES DOIT ÊTRE CONFORME AUX DIRECTIVES DU FABRICANT.

WARNING: THE USE OF ALCOHOL OR DRUGS CAN GREATLY INCREASE THE RISK OF FATAL HYPERTHERMIA IN HOT TUBS AND SPAS

LA CONSOMMATION D'ALCOOL OU DE DROGUE AUGMENTE CONSIDÉRABLEMENT LES RISQUES D'HYPERTHERMIE MORTELLE DANS UNE CUVE DE RELAXATION.

WARNING: HYPERTHERMIA

"Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include failure to perceive heat; failure to recognize the need to exit spa or hot tub; unawareness of impending hazard; fetal damage in pregnant women; physical inability to exit the spa or hot tub; and unconsciousness resulting in the danger of drowning.

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

a) READ AND FOLLOW ALL INSTRUCTIONS.

b) A green coloured terminal or a terminal marked G, GR, Ground, Grounding, or the 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. * IEC 60417, Symbol 5019.

c) 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 hot tub or spa to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.

d) All field-installed metal components such as rails, ladders, drains, or other similar hardware within 3 m of the spa or hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.

e) SAVE THESE INSTRUCTIONS.

(For units with a GFCI)

WARNING – This product is provided with a ground-fault circuit-interrupter (give location). The GFCI must be tested before each use. With the product operating, open the service door. When the product stops operating, this merely indicates that the door is equipped with an electrical interlock. Next, push the test button on the GFCI and close the service door. The product should not operate. Now open the service door, push the reset button on the GFCI and close the service door. The product should now operate normally. When

the product fails to operate in this manner, there is a ground current flowing indicating the possibility of an electric shock. Disconnect the power until the fault has been identified and corrected.

GENERAL SAFETY INSTRUCTIONS



This manual has been prepared to help you get the most out of your spa in a safe manner, avoiding circumstances that could void the warranty.

Read this guide carefully before using the equipment and performing any maintenance, and keep it on hand for any future needs.

If you do not understand something, contact the manufacturer for an explanation.



Unauthorised actions, tampering or modifications that do not follow the information provided in this manual can cause damages, injuries or fatal accidents and null and void the warranty.



Any use or maintenance of the spa carried out in a manner different from what is indicated in this manual can void the warranty.



Before performing any installation or maintenance disconnect the electricity and water supply.



Avoid placing any object or substance on the surfaces of the spa that can damage them.



DANGER!

RISK OF ELECTRIC SHOCK.

Do not place any electrical appliance - like hair dryers, lights, radios, phones or TV - closer than 1.5 m from the spa.

SAFETY INSTRUCTIONS FOR USE



RISK OF DROWNING! To reduce the risk of accidents, do not allow children under the age of eight years, people with reduced psychological and sensory abilities or

those who are inexperienced to use the spa without close constant surveillance.



Do not dive into the spa: risk of serious personal injury and structural damage to the equipment.



WARNING!

TO REDUCE THE RISK OF INJURY

- The spa water must never exceed 40 °C in order to avoid hyperthermia.
- Water temperatures between 38 and 40 °C are still considered safe for a healthy adult. Lower temperatures are recommended for extended use (exceeding 10 minutes), for children or if you are alone.
- To minimise the risks, always feel the temperature with your hand to verify the temperature and comfort level before allowing children to get into the spa.
- Pregnant women or those presumed to be should consult a doctor before using the spa.
- People with infectious, skin or contagious diseases should NOT use the spa.
- People with health problems should consult a physician before using the spa, especially those suffering from obesity, heart disease, low or high blood pressure, circulatory problems, diabetes, clotting problems, pregnant women, etc.
- The use of medicines, alcohol and drugs before or during use of the spa can lead to unconsciousness and consequent possibility of drowning.
- Avoid putting your head under water all the time.
- Avoid ingesting the spa water.
- When the spa is used, the cover should be placed in a clean and dry area, otherwise it can collect dirt and bacteria. The cover should not be placed on wooden tables or terraces due to the risk of wood bleaching. A cover lifter, or similar device, is useful to ensure that the cover does not come into contact with the ground. A cover lifter is strongly recommended for rental spas.



The Manufacturer recommends that you

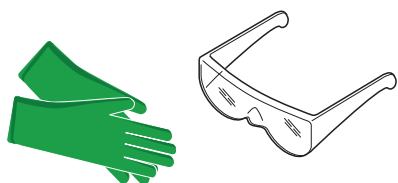
always place the optional cover when the spa is not in use.

The cover is not designed to support weights. Do not walk, jump, sit or place any objects on it.

SAFETY INSTRUCTIONS FOR MAINTENANCE

 Perform maintenance on your spa on a regular basis as this will maintain the surfaces and functional parts in optimal condition and also ensure maximum hygiene and safety when using the spa.

 During the maintenance of the pool and the use of chemicals, always use personal protection (e.g., protective gloves and glasses).



 For routine maintenance, use only the products specified by the Manufacturer: other types of detergents or disinfectants could irreparably damage the spa surfaces and circuits (damage resulting from the use of unsuitable products is not covered by the warranty).

 Unauthorised actions, tampering or modifications that do not follow the information provided in this manual can cause damages, injuries or fatal accidents and null and void the warranty.

 Persons not involved with equipment maintenance may not pass through or occupy the work area.

 The spa owner must be aware that, for good circulation when the spa enters a filtration purge cycle, it is good practice that

on leaving the spa, all massage jets are left open, the aeration valves are closed and the deflectors are positioned halfway to allow the chemically treated water to thoroughly wash all the pipes.

 Before performing any maintenance disconnect the electricity and water supply.

 The filter should be cleaned (and drained/dried where applicable) every time the spa is emptied.

 If there is a compensation tank, this must be emptied every time the spa is emptied and at the same time it must be cleaned and disinfected regularly.

 Being potentially toxic by ingestion and contact, cleaning and disinfectant products **must be kept tightly closed and out of the reach of children or pets. When not in use, store these chemicals in their original labelled and well sealed containers in a cool, dark place, away from heat sources.**



BEFORE USING THE SPA...

Read these chapters before using your new spa. They will provide you with useful tips to use it safely with maximum benefit.

USE ADVICE

- When using the spa, do NOT wear loose clothing, pendant jewellery and tie up long hair to avoid the risk of becoming caught in moving parts.
- The time in the spa should never exceed **20 minutes**.
- Use the whirlpool at **most three times** per week.
- Inside the spa DO NOT use foaming detergents, soaps, bath oils, greasy lotions or products that are not compatible with the spa.
- Before entering the spa take a shower to remove any fatty substances (e.g., sweat, suntan lotion, etc.) that could make the water cloudy and oily.
- The paving around the spa may become very slippery. Be careful when entering or exiting the water.

TIME IN THE WATER

For a relaxing experience the ideal water temperature is about 33-37°C for a duration of about 20 minutes. In fact, a temperature equal to that of the body fosters vasodilation and muscle relaxation.

For an energising experience, soak for about 10 minutes, preferably in the morning, at about 33°C.

For a draining experience, use the whirlpool for 5-8 minutes at a maximum of 35°-37°C. After leaving the spa relax for a few minutes to allow the pressure altered by the heat and massage to return to normal.



More information

CHROMOTHERAPY

Light is made up of seven basic colours: red, orange, yellow, green, blue, indigo and violet. The classic example of the colour spectrum that we find in nature is the rainbow.

The Egyptians, Greeks and Romans practised heliotherapy (exposure to direct sunlight) for the treatment of various disorders.

In India, ayurvedic medicine has always taken into account how colours affect the balance of the Chakras and how they can help the body and psyche to restore their natural balance.

Red: dissipates the deepest fears and maintains the person well anchored to the present and to the solidity of the earth.

Orange: stimulates feminine creativity, optimism and serenity.

Yellow: brings out emotions and desires, personal power and the ability to perceive the qualities and feelings of others.

Green: reawakens love and openness towards others, selflessness, inner goodness.

Light blue: promotes the ability to listen to others. It is related to the expression of one's personality, creativity, imagination, relaxation.

Indigo: has the ability to broaden our understanding and treat disorders that affect sensory organs like eyes, nose and ears.

Violet: cold colour that promotes spirituality, inspiration and imagination.

ESSENCES AND BATH SALTS

Inside the spa DO NOT use foaming detergents, soaps, bath oils, greasy lotions or products that are not compatible with the spa. Otherwise the water can become oily or foamy and it could damage the filter, causing it to lose effectiveness.

To make your bath even more relaxing and stimulating, use bath salts in moderate amounts or natural essences, ensuring that the products used are **formulated to be compatible with the spas in laminated resin**.

Products specific for spas must not:

- Be foamy
- Be oily
- Be flammable
- Contain soluble substances
- Alter the chemical parameters of the spa water

Follow the quantities and methods indicated on the labels of the products used.

If the water becomes foamy or cloudy after use, change the water and clean the spa. Then try using less product or contact its manufacturer for more information.



More information

Sweet orange essence

Sweet orange essence is obtained from *Citrus sinensis* dulcis, a plant of the Rutaceae family. Having an astringent and cleansing action, it is helpful for anxiety and stress.

Neroli essence

Neroli essence is obtained from *Citrus aurantium*, a plant of the Rutaceae family. Known for its many properties, it has a calming, balancing and rejuvenating effect.

Ylang Ylang essence

Ylang Ylang essence is obtained from *Cananga odorata*, a plant of the Annonaceae family. It has a calming, hypotensive and aphrodisiac effect.

Myrrh essence

Myrrh essence is obtained from *Commiphora myrrha*, a plant of the Burseraceae family. The essence is harmonising and spiritual, increasing openness to the receipt of energy.

Lavender essence

Lavender essence is derived from *Lavandula angustifolia*, a plant of the Lamiaceae family. It performs a rebalancing action on the central nervous system, calming anxiety and nervousness.

Apricot essence

Apricot essence is derived from *Prunus armeniaca* - Rosaceae, it has a delicate and pleasant scent with calming, relaxing and anti-stress effects.

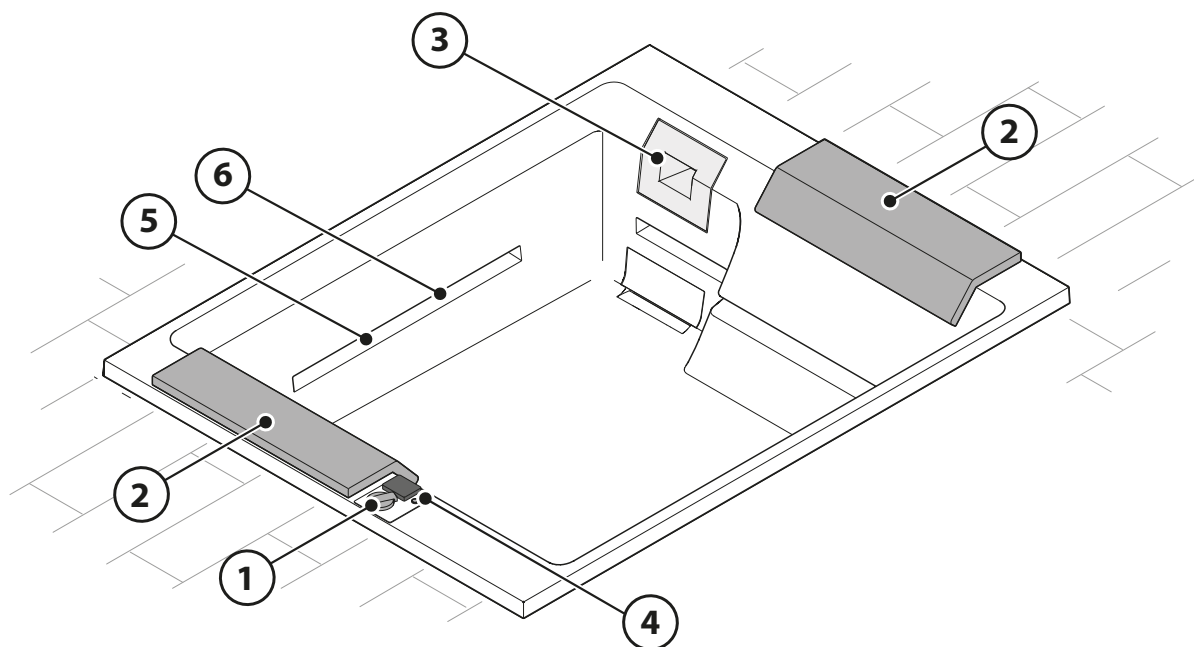
Eucalyptus essence

The essence made from eucalyptus provides an experience that is energising, balsamic and fresh.

2 SPA FUNCTIONS

U

SOUL



- 1 Air Regulator
- 2 Cushions
- 3 Skimmer with paper filters
- 4 Control panel
- 5 Ghost whirlpool
- 6 Chromotherapy

The spa must **ALWAYS** remain connected to the electrical grid: this is necessary for filtering and maintaining the spa's water temperature.

ALWAYS cover the spa when inactive. This protects it from the sun's rays, prevents dirt from accumulating inside the bathtub and keeps it from losing heat, thus optimising the efficiency of the heater.

FILLING THE SPA

For filling, use a rubber hose as shown in the figure. The water used must meet the requirements detailed in the previous pages and summarised here:

Potability

Hardness (TH): between 10°F and 25°F

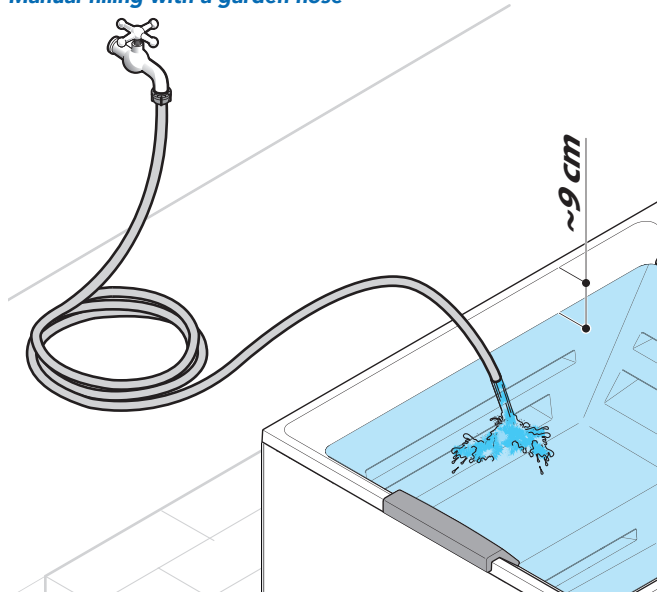
(100 mg/l-250 mg/l)

pH: between 7.4 and 7.8

Alkalinity: 80 and 125 mg/l (8-12.5°F)

Fill the spa until the water reaches about 9 cm from the upper edge where the morphology of the back of the pool changes inclination.

Manual filling with a garden hose



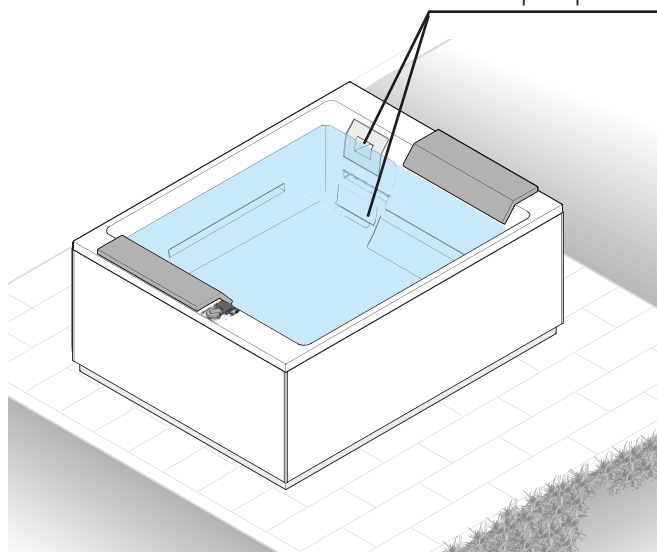
SUCTION PUMPS

The suction of the minipool is from both the skimmer and the drainage at the bottom of the same.



For the operation see page 14.

suction pumps

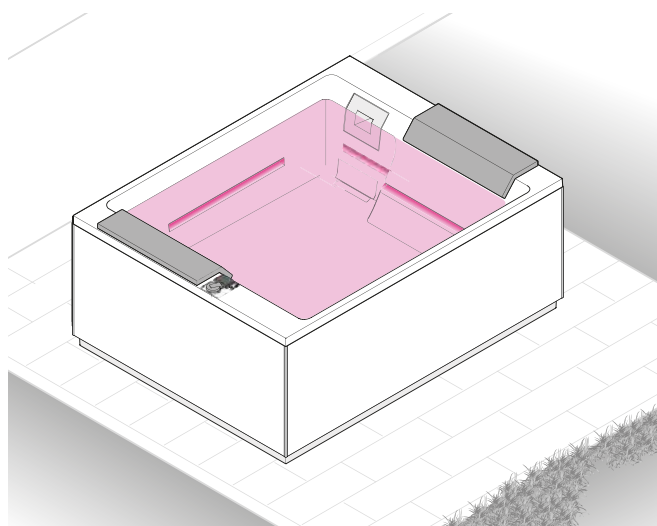


CHROMOTHERAPY

The LED light moves the hydromassage in the pool. The LED strips are positioned in the slots of the Ghost whirlpool.



For the operation see page 14.

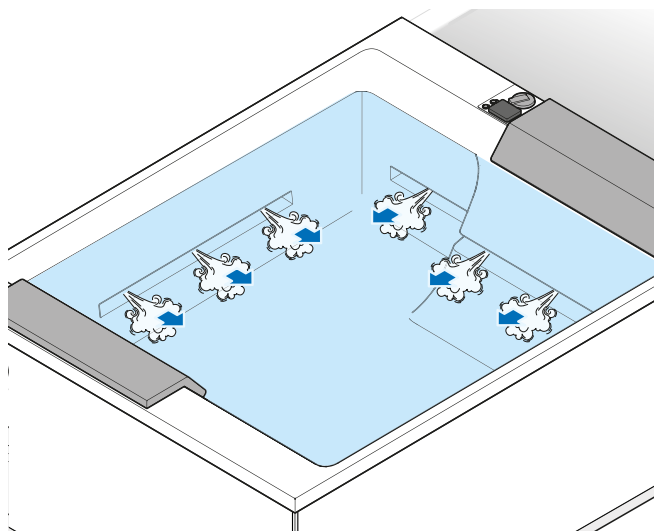


WHIRLPOOL

Soul minipools differ from classic products, where everything is visible, for the targeted positioning of the hydro-massage jets, positioned inside a slit, therefore creating a pleasant visual effect. A transformation that makes the minipools even more attractive from an aesthetic and technological point of view.

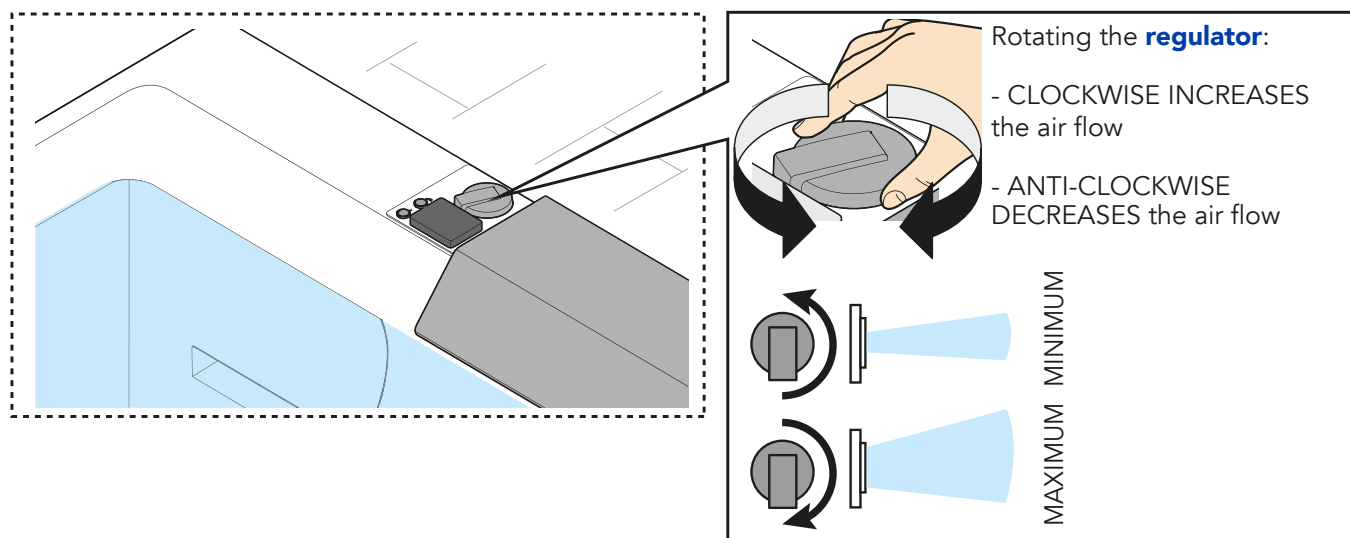
PERIMETRIC WHIRLPOOL

This minipool is equipped with the patented GHOST SYSTEM® whirlpool, a system that is truly invisible, which allows for extremely simple design solutions for bathtubs that are completely free of external nozzles and jets. GHOST SYSTEM®, an exclusive patent of Treesse Group, owes its name to the invisibility of the components, fully incorporated in the bathtub. The system is distinguished by thin internal perimeter slots that host a large number of jets that are properly oriented.



For the operation see page 14.

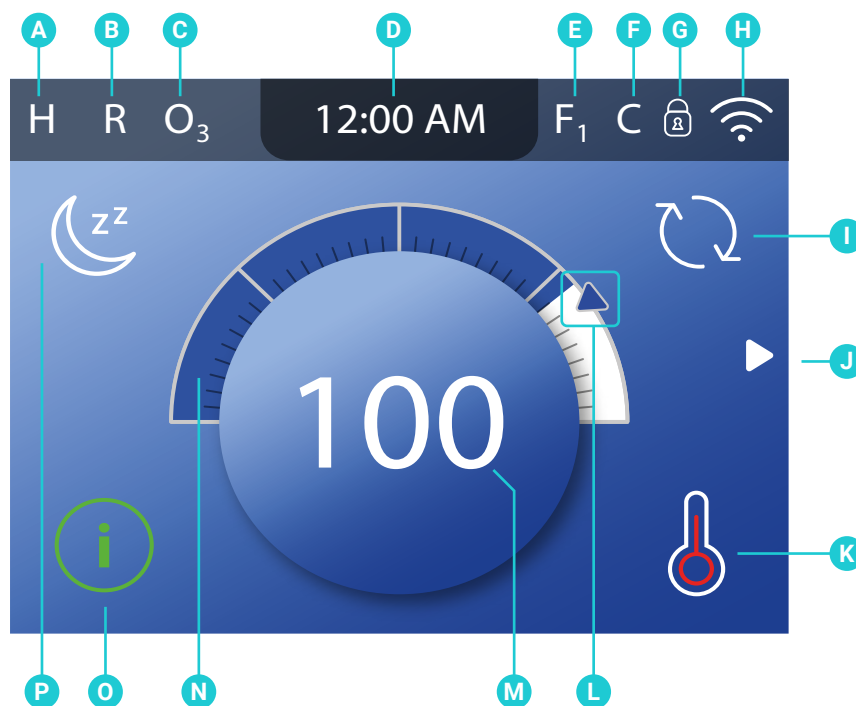
WHIRLPOOL REGULATION



3 CONTROL PANEL: HOW TO USE IT

MAIN SCREEN

To set the desired language, see "SELECTING THE LANGUAGE" chapter on page 25



- A** - Temperature range
High: **H**
Low: **L**
- B** - Heating mode
Ready: **R**
Rest: **IR**
Ready-in-Rest: **RR**
- C** - Ozone is running: **O₃**
- D** - Time-of-day
- E** - Filter cycle is running
Filter cycle 1: **F₁**
Filter cycle 2: **F₂** (optional function)
Filter cycles 1 & 2 running together: **F₁₂**
- F** - Cleanup cycle is running (Optional Feature)
- G** - Panel is locked and/or Settings is locked
- H** - Balboa Worldwide App or ControlMySpa™ connected (local or cloud connection)
- I** - Invert display
- J** - Go to Main menu
- K** - Heater status
- L** - Set Temperature indicator
- M** - Water temperature
- N** - Water temperature bar
- O** - Message (may appear)

i Information

R Reminder

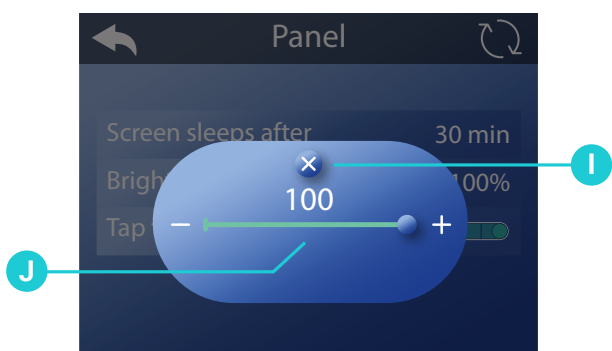
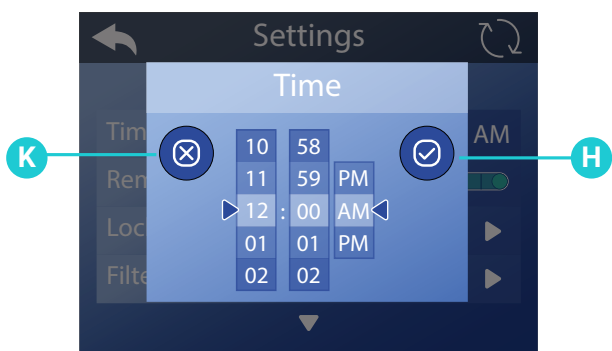
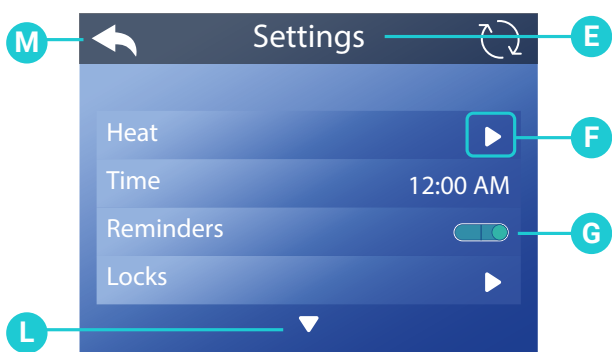
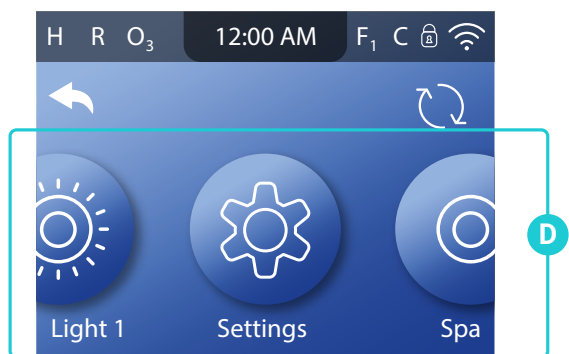
! Error - normal error or warning

! Error - spa will not function until fixed

P - Put panel to sleep

Important information about the current state of your spa is displayed on the Main screen.

NOTE: not all control systems are configured the same. Spa devices, Settings, and various menu items may vary on your control panel.



A - These icons indicate the state of your spa.
Press an icon to see the state.

B - Main Screen.

C - Go to Main menu.

D - Main Menu. Swipe left/right to view the menu options.

E - Screen title.

F - Go to next screen.

G - On/Off switch.

H - Save new setting.

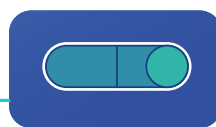
I - Close screen.

J - Increase/decrease setting.

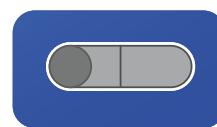
K - Cancel new setting.

L - Go down the list.

M - Go back to previous screen.



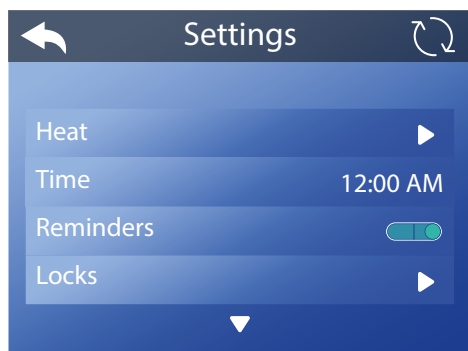
Switch On



Switch Off

NAVIGATE SETTINGS MENU

Start from the Main screen **B**. Press the navigation arrow **C** to view the Main menu **D**. Swipe right until the Settings button appears in the center **D**. Press the Settings button to view the Settings screen **E**. Swipe up/down or press the arrow **L** to view available settings.



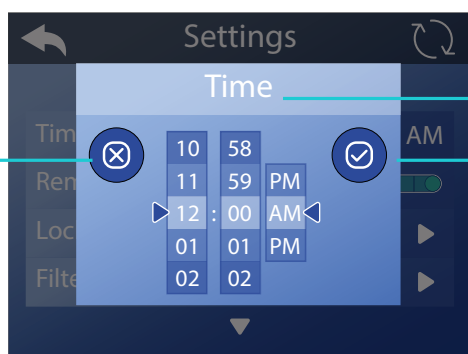
A

SET TIME OF DAY

Follow these steps to set the time of day:

- 1 - Go to the Main menu, Settings, and Time **A** to view the Time screen **B**.*
- 2 - Setting the time.
- 3 - Cancel your setting **H**, or save your setting **C**.

Note: if the time of day has not been set, this Information icon appears **G**. Press the icon to view the message **F**. Exit the screen **E**.



B

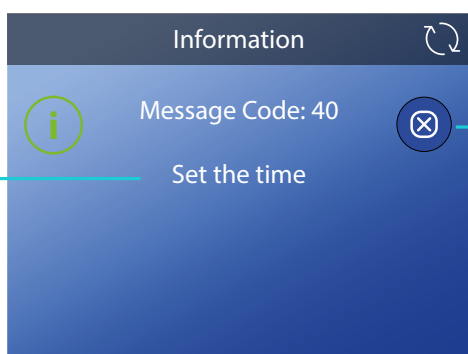
H

C



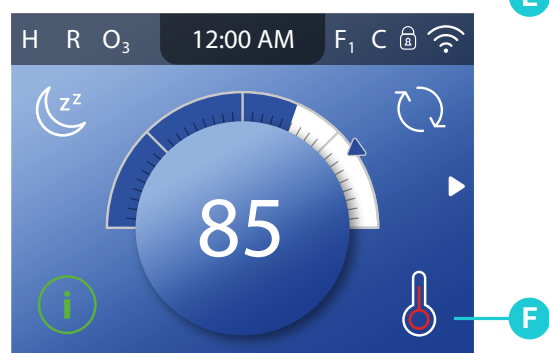
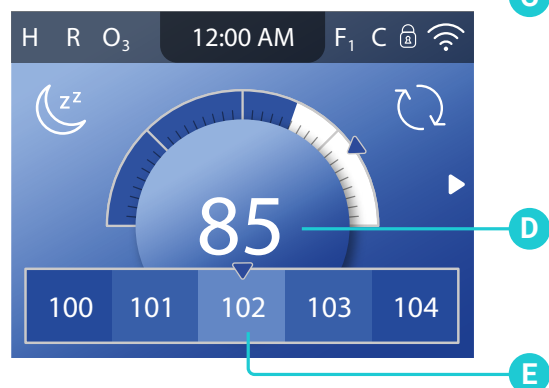
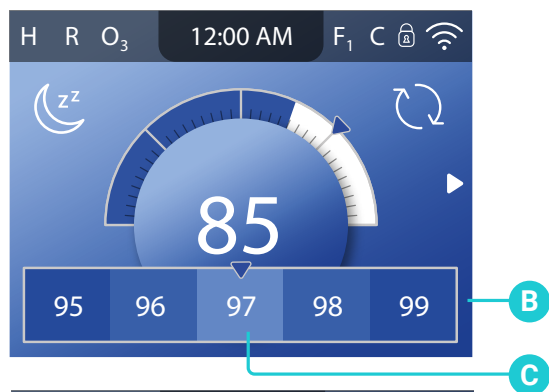
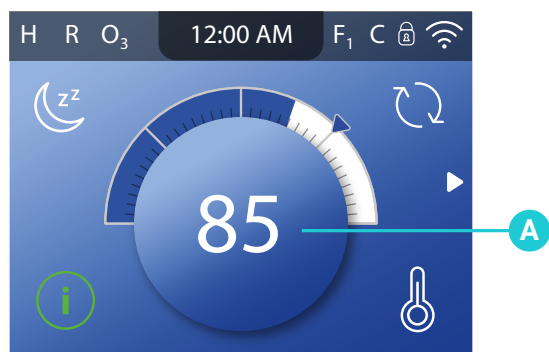
D

G



E

F



CHANGE/VIEW SET TEMPERATURE

In this example, we will change the Set Temperature from 97 to 102 by using the following steps:

- 1 - Press the water temperature display/button **A** to view the temperature menu **B**. The centre box **C** indicates the current Set Temperature.
- 2 - Swipe the temperature menu until 102 is in the centre box **E**. If 102 appears but is not in the center box, tap 102 and it will move to the center box.
- 3 - Press the water temperature display/button **D** to exit the temperature menu.

How do I view the water temperature?

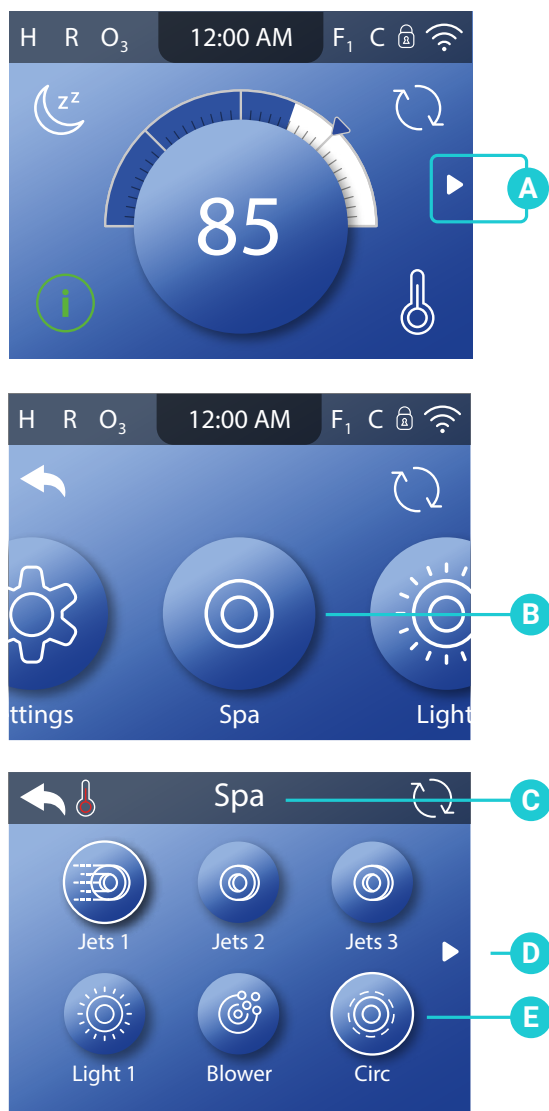
The water temperature is displayed on the Main screen **A**.

How do I know when the water heater is On?

The centre of the Heater Status icon turns red **F**. The center flashes red when the heater is preparing to turn On. The centre turns white **H** when the heater is Off.

What do the dashes mean **G**?

They indicate that the spa control has not checked the water temperature for approximately an hour. A pump needs to cycle water through the heater for the control system to check the water temperature. After water cycles through the heater for 1 minute, the dashes are replaced with the current water temperature **A**. Whenever the control system is powered On, dashes appear **G** for one minute while a pump cycles water through the heater to check the current water temperature.



RUN SPA DEVICES

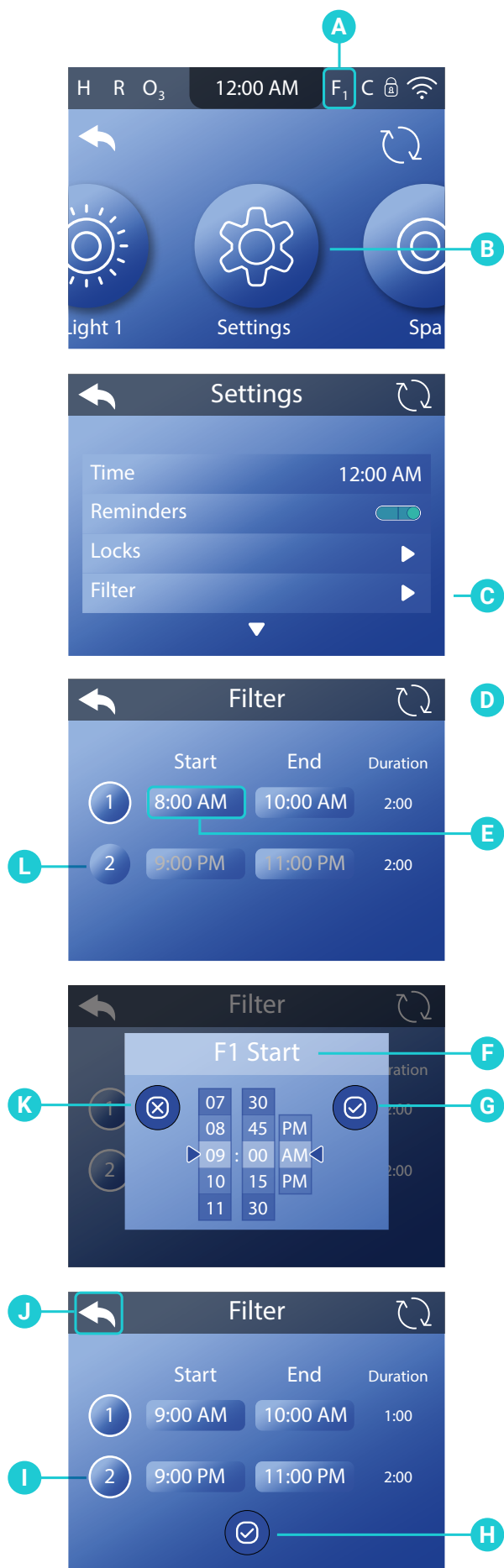
A spa device is a pump, blower, light, etc. Follow these steps to run spa devices:

- 1 - Go to the Main menu **A** and Spa **B** to view the Spa screen **C**.
- 2 - Run the spa devices.

The functionality of each spa device may vary. For example, some devices may have a single speed or state, while other spa devices may have multiple speeds or states. Your spa configuration will determine the number of spa devices and the functionality of each device.

One Spa screen **C** can display a maximum of six devices. If your spa has more than six devices, an arrow button will appear **D**. Press the arrow button to view and/or run devices on the next Spa screen.

If a circulation pump icon appears **E** in the Spa screen, it cannot be controlled. It is there to show you the equipment status only. However, the circulation pump can be controlled with a button **E** during Priming mode. View the reference chapter for information on Priming mode.



SET FILTER CYCLE TIME

Follow these steps to set the start time of filter cycle 1:

- 1 - Go to the Main Menu, Settings (B), Filter (C), and press this field (E) to view the F1 start screen (F).*

2 - Set the start time.

3 - Cancel your settings (K) or save your settings (G).

4 - Follow the same process to set the other times in the Filter screen (D).

5 - Filter Cycle 2 is optional. If Filter Cycle 2 is disabled (L), press the "2" button (L). A white ring will appear around the button (I) which indicates that Filter Cycle 2 is activated.

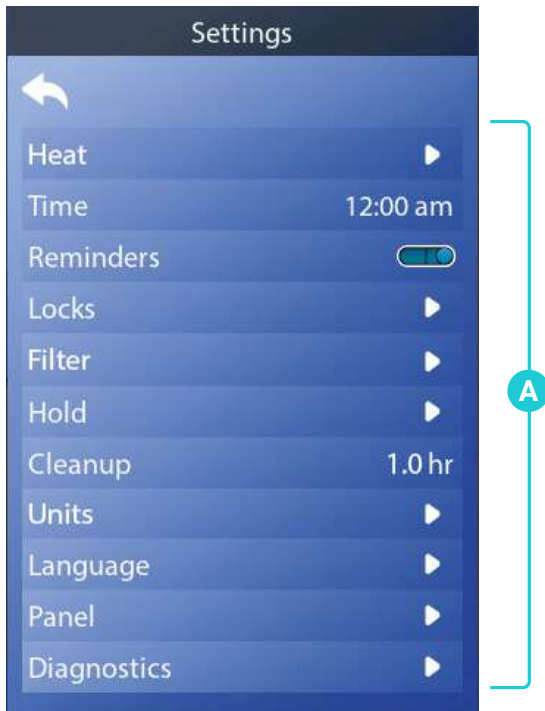
6 - Set the times for Filter Cycle 2.

7 - Once all of the times are set, you can cancel your settings by using the Back icon (J), or save your settings (H).

"F1" appears here (A) when filter cycle 1 is running.

"F2" appears here (A) when filter cycle 2 is running.

"F12" appears here (A) when filter cycles 1 & 2 are running together.



REVIEW SETTINGS MENU

Fine tune your spa with a wide variety of settings **A**.

HEAT

Set the heating parameters to ensure that the spa is heated and ready for use (view the chapter of reference).

TIME

Set the time of day to ensure scheduled features have proper timing (view the chapter of reference).

REMINDERS

Reminders are helpful spa maintenance messages that display periodically.

LOCKS

Lock the panel and/or the settings (view the chapter of reference).

FILTER

Keep your spa water clean and ready to enjoy by setting the filter cycles (view the chapter of reference).

HOLD

Hold is used to disable the pumps during service functions like cleaning or replacing the filter. Hold mode may last for 1 hour unless the mode is exited manually. If spa service will require more than an hour, it may be best to simply shut down power to the spa.

CLEANUP

When a pump or blower is turned on by a button press, a cleanup cycle may begin 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator may run for 30 minutes or more, depending on the system. Cleanup can be turned Off by setting it to 0.0 hr.

UNITS

Select how time and temperature are displayed. The temperature choices are Fahrenheit or Celsius. The time choices are 12 or 24 hour mode (view the chapter of reference).

LANGUAGE

Select from a variety of languages.

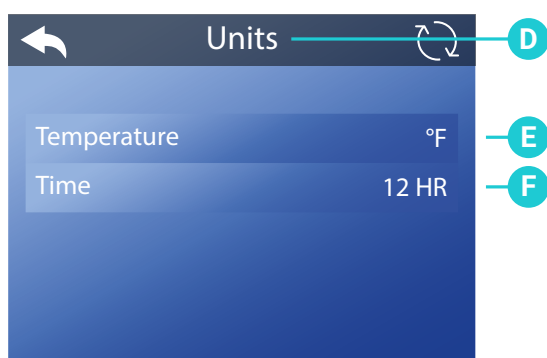
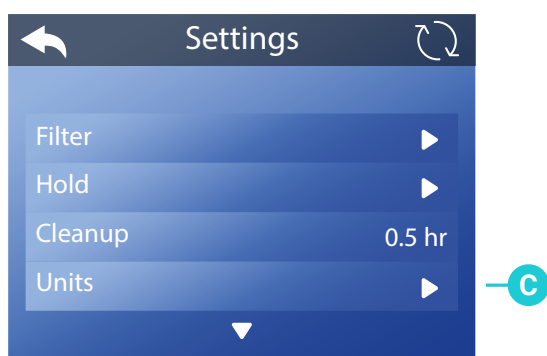
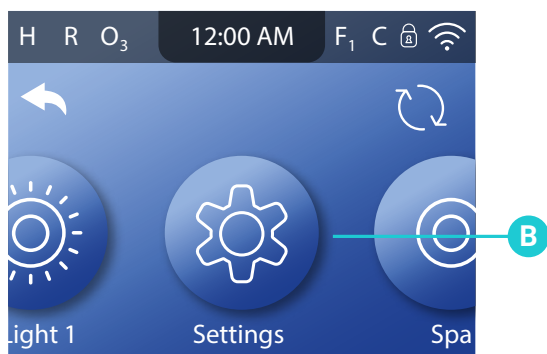
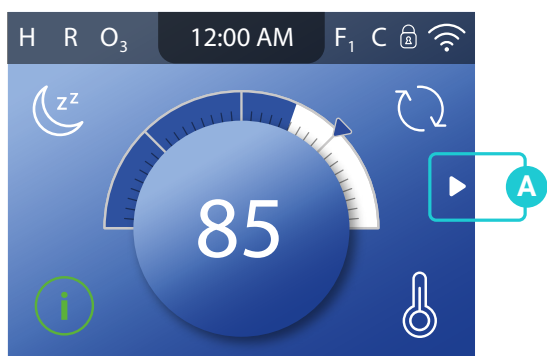
PANEL

Set how long it takes the panel to go to sleep after the last activity, and adjust other panel settings (view the chapter of reference).

DIAGNOSTICS

Diagnostics has useful information and features such as system information, fault log, and GFCI test (view the chapter of reference).

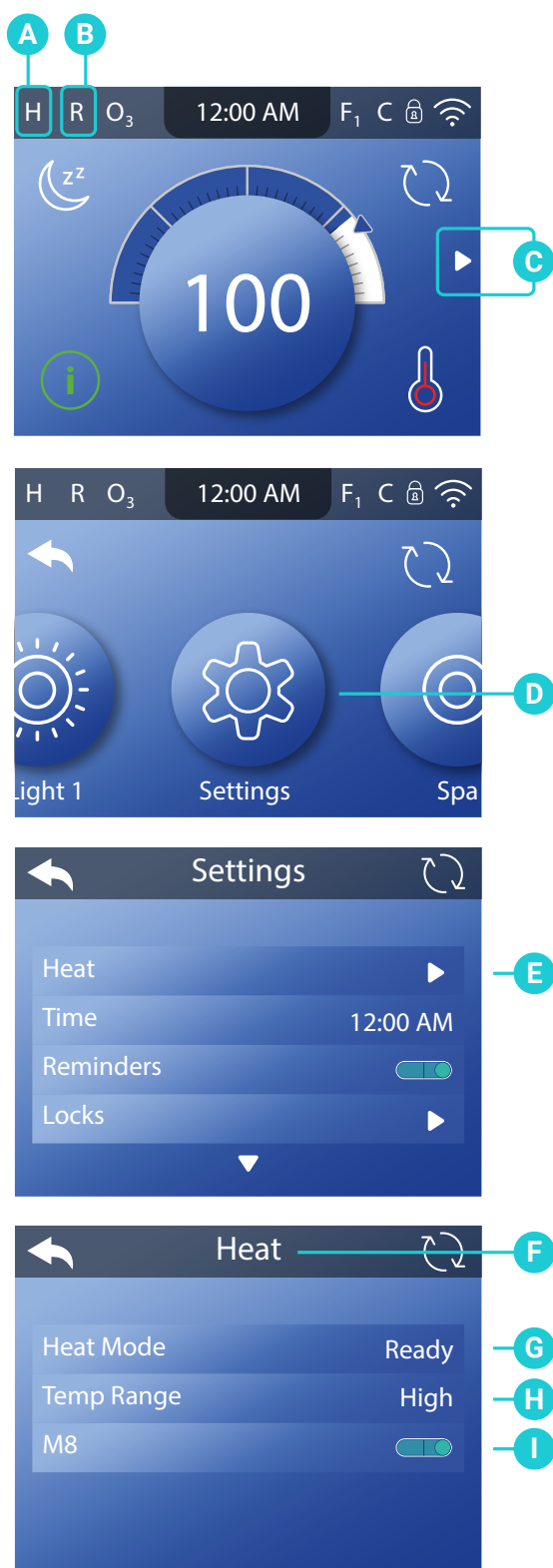
GFCI test applies to North America only. This feature is not available on CE rated systems.

**SET UNITS**

Follow these steps to set the units:

- 1 - Go to the Main menu **A**, Settings **B**, and Units **C** to view the Units screen **D**.
- 2 - Choose your Units **E F**. Changes take effect immediately. No need to press a save button.

U



CHANGE HEAT SETTINGS

Keep your spa heated and ready to enjoy, or keep it cool and save energy. Heat settings help you do both.

Follow these steps to change the heat settings:

- 1 - Go to the Main Menu **C**, Settings **D**, and Heating **E** to view the Heating screen **F**.
- 2 - Select the settings **G H I**. Changes take effect immediately. No need to press a save button.

HEAT MODE **G**

There are three heat modes: Ready, Rest, Ready-In-Rest. If your spa is in Ready mode, "R" appears here **B**. Ready mode keeps the water temperature close to the Set Temperature 24 hours a day. If you use your spa consistently, select Ready mode. If your spa is in Rest mode, "IR" appears here **B**. Rest mode only heats the water during filter cycles. If you do not use your spa consistently, select Rest mode. If your spa is in Ready-In-Rest Mode, "RR" appears here **B**. Ready-in-Rest Mode is the same as Rest Mode, except Ready-in-Rest Mode heats the water, if necessary, for one hour when you turn On Jets 1. If the spa is in Ready-in-Rest mode and you go to the Heat screen **F**, that cancels Ready-in-Rest Mode and puts you back into Rest Mode, even if you press no buttons while on the Heat screen.

TEMP RANGE **H**

There are two temperature ranges: High, Low. If your spa is in High Range, "H" appears here **A**. High Range may limit the Set Temperature range to 80° - 104° F (26.5° - 40.0° C).

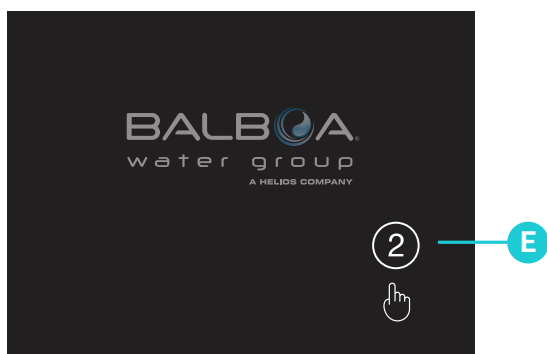
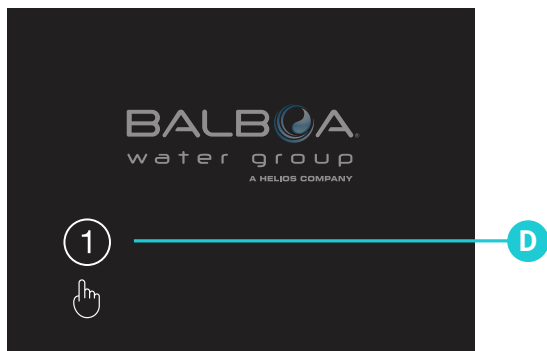
If your spa is in Low Range, "L" appears here **A**. Low Range may limit the Set Temperature range to 50° - 99° F (10.0° - 37.0° C).

M8 **I**

M8 looks for opportunities to decrease device usage by evaluating water temperature readings. Stable water temperatures equal less device usage and less wear and tear.

Note: M8 is not available on all control systems.

Main Screen

**ACTIVATE SLEEP MODE**

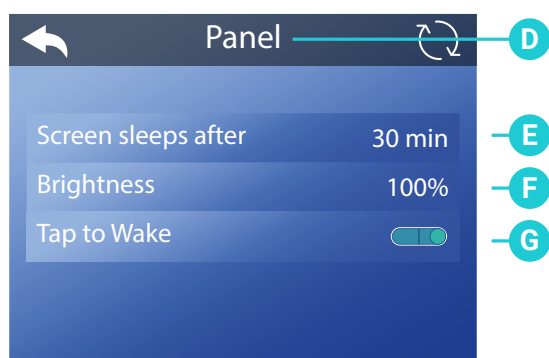
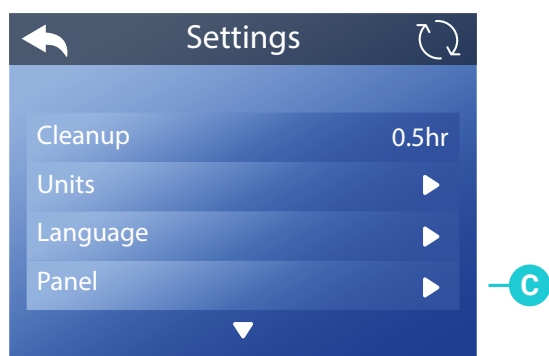
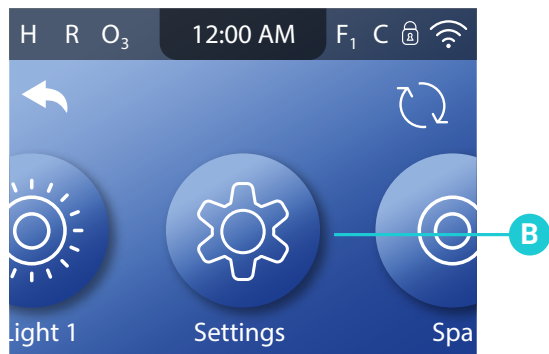
Press the sleep button **A** to put the panel to sleep. The black screen **C** indicates that the panel is asleep.

The panel automatically goes into sleep mode when it is not used for a specified duration. The duration can be adjusted (view "Screen sleeps after"). Short times are recommended because it decreases the chance of water activating buttons.

Follow these steps to wake the panel:

- 1 - Press the black screen **C**.
- 2 - If on the main screen appears **B** within a few seconds, you're done. If **D** appears, go to step 3.
- 3 - Press "1" **D** and then "2" **E**.

You can determine if the panel wakes with one touch or three touches (view "Tap to Wake"). The purpose of multiple touches is to make it very unlikely that water can wake the panel.



CHANGE PANEL SETTINGS

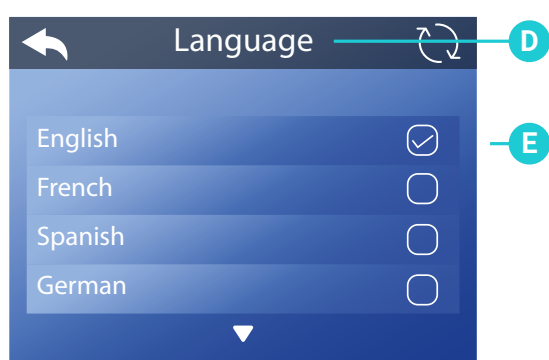
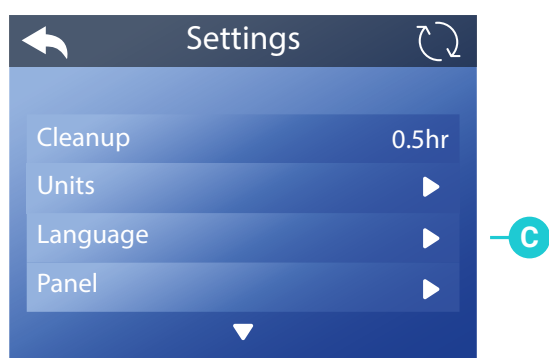
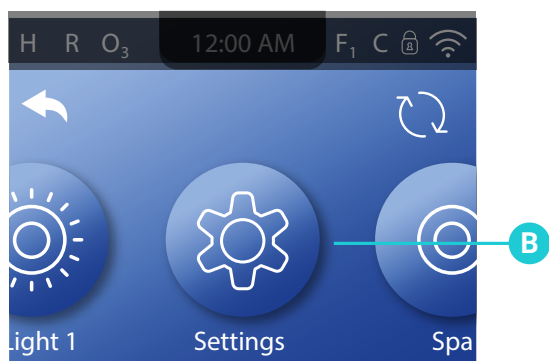
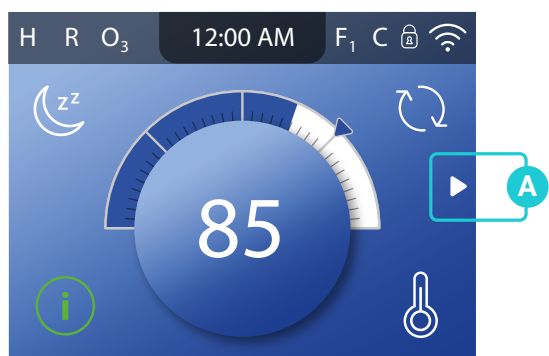
Follow these steps to set the units:

- 1 - Go to the Main Menu **A**, Settings **B** and Panel **C** to view the Panel screen **D**.
- 2 - Choose your settings. Changes take effect immediately. No need to press a save button.

"Screen sleeps after" **E** is the amount of time it takes for the panel to go into sleep mode. Short times are recommended because it decreases the chance of water activating buttons.

"Brightness" **F** is the panel brightness.

"Tap to Wake" **G** determines if the panel wakes with one touch or three touches (view the chapter of reference). The purpose of multiple touches is to make it very unlikely that water can wake the panel.



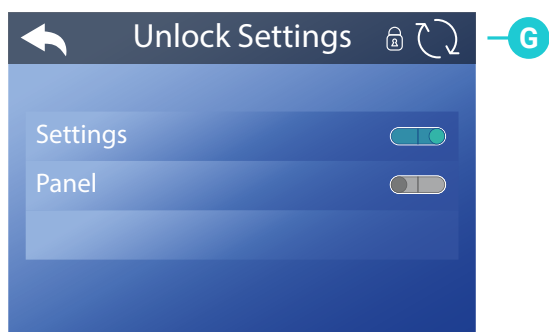
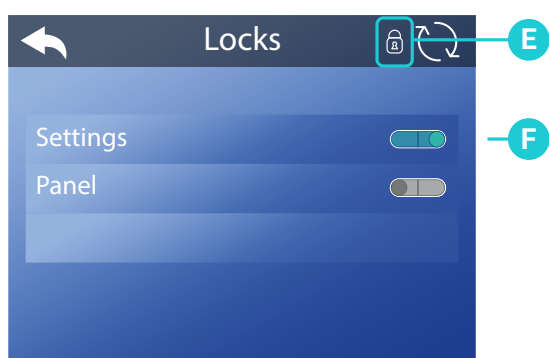
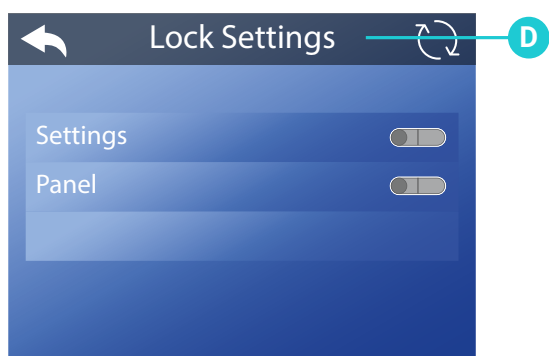
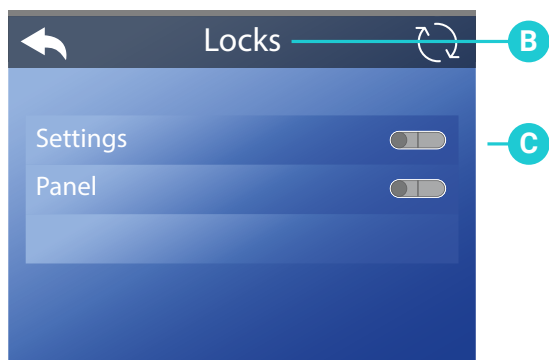
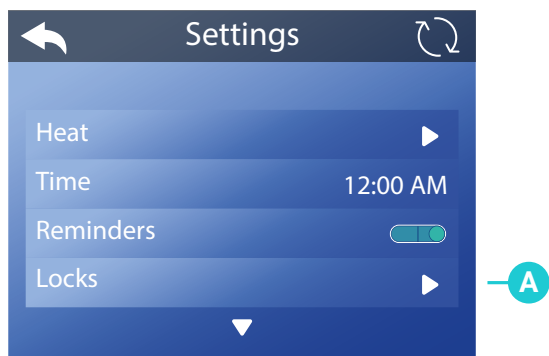
SELECT A LANGUAGE

Follow these steps to select a language:

- 1 - Go to the Main Menu **A**, Settings **B** and Language **C** to view the Language screen **D**.
- 2 - Select the language **E**. Changes take effect immediately. No need to press a save button.

If your spa has two control panels, language is set independently on each control panel.

U



LOCK THE PANEL AND/OR SETTINGS

Follow these steps to lock the Settings:

- 1 - Go to the Main menu, Settings, Locks **A**.
Settings are unlocked in this example **C**.
- 2 - Press Settings **C** and "Lock Settings" will appear **D**.
- 3 - Press-and-hold "Lock Settings" **D** for approximately 5 seconds. After 5 seconds a lock icon will appear **E** and the switch icon will turn On **F**.

Lock icons appear in these locations **E H** when the Settings are locked.

Follow these steps to unlock the Settings:

- 1 - Press Settings **F**: "Unlock Settings" appears **G**.
- 2 - Press-and-hold "Unlock Settings" **G** for approximately 5 seconds. After 5 seconds, the lock icons disappear, and the switch icon turns Off.

Follow the same steps to lock/unlock the panel. Lock icons appear in these locations **E H** when the Panel and/or Settings are locked.

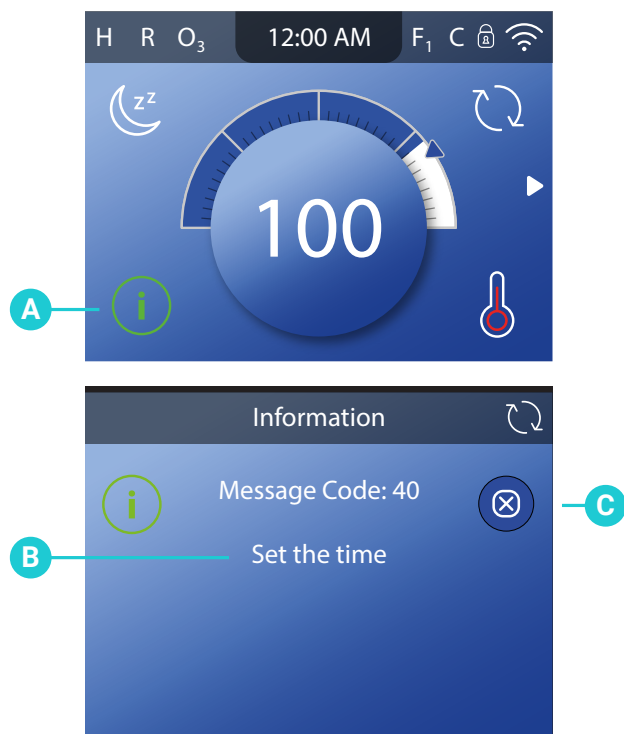
If your spa has two panels, the lock/unlock feature is applied to both panels.

See "Navigate Settings Menu".



See "Navigate Settings Menu".

Main Screen



VIEW MESSAGES

One of the following icons will appear here **A** when the control system sends a message.

- Information
- Reminder
- Error - normal error or warning
- Error - spa will not function until fixed

Follow these steps to view the message:

- 1 - Go here **A** to view the message **B**.
- 2 - Exit the screen **C**.

MESSAGE LIST

Possible freezing condition

A potential freeze condition has been detected, or the Aux Freeze Switch has closed. All water devices are activated. In some cases, pumps may turn On and Off and the heater may operate during freeze protection.

The water flow is low

There may not be enough water flow through the heater to carry heat away from the heating element. Heater start up will begin again after about 1 minute.

The heater is dry

There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must reset the message to restart heater start up.

The water is too hot

The system has detected a spa water temp of 110°F (43°C) or more, and spa functions are disabled. The system will auto reset when the spa water temp is below 108°F (42°C). Check for extended pump operation or high ambient temperature.

The water flow has failed

There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. After the problem has been resolved, reset the message.

The heater is too hot

One of the water temp sensors has detected 118°F (about 48°C) in the heater and the spa is shut down. You must reset the message when water is below 108°F (about 42°C).

The water level is too low

This message can only appear on a system that uses a water level sensor. It appears whenever the water level gets too low (or the water level sensor is disconnected), and automatically disappears when the water level is adequate. Pumps and the heater turn Off when this message appears.

Communications error

The control panel is not receiving communication from the control system (view diagram below). This can appear briefly during system start-ups. This is normal. If it does not go away quickly, call for service.

The heater may be dry

Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 minutes. Reset this message to reset the heater start-up.

Hot fault

A Pump Appears to have been stuck On when spa was last powered Off. Power Off the spa. DO NOT ENTER THE WATER. Contact your dealer or service organization.



FILL YOUR HOT TUB

LOCK THE PANEL AND/OR SETTINGS

Fill the spa to its correct operating level. Be sure to open all valves and jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing during the filling process. Air may be trapped in the plumbing after filling the spa tub. Remove trapped air by priming the pumps. Priming will be discussed shortly.

After turning the power on at the main power panel, the spa control panel will display a splash screen or startup screen. After the initial start-up sequence, the control will enter Priming Mode and display a Priming Mode screen (view next page **C**). Only pump icons appear on the Priming Mode screen. During Priming Mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions.

WHAT IS PRIMING?

Priming removes trapped air from the plumbing. How do you know when a pump is done priming? Priming is complete when water flows from the jets without air bubbles. So, watch the jets as you prime the pump. If your spa has more than one pump, prime each pump one at a time. Why prime one at a time? If multiple pumps are running, it is too difficult to determine which pump is circulating air bubbles, or the flow from one pump may hide the flow from another pump. Sometimes momentarily turning the pump Off and On will help it to prime. Do not do this more than 5 times. If the pump will not prime, shut Off the power to the spa and call for service.

PRIMING MODE

Priming Mode will last for 4 minutes, or you can manually exit Priming Mode after the pump(s) have primed. Regardless of whether Priming Mode ends automatically or you manually exit Priming Mode, the control system automatically returns to normal heating and filtering at the end of Priming Mode.

PRIMING THE PUMPS

One Priming Mode screen can display a maximum of six pumps (and other water devices). If there are more than six devices, a small navigation arrow will appear on the screen, indicating that more devices are available to control on the next Priming Mode screen. Press the navigation arrow **D** to view the next screen.

The techniques for Priming pumps and running spa devices are almost identical. View page 8 for more information on running spa devices.

This panel message **C** indicates that the spa is in Priming Mode. Note: Turning the power Off and back On again will initiate a new pump priming session. If you need more than 4 minutes to prime all of the pumps, cycle power to the spa again.



FOLLOW THESE STEPS TO PRIME A TWO-SPEED PUMP:

Press the button (JETS 1, JETS 2, etc.) for that pump once to turn it On at low speed. Press the button again to run the pump at high speed. Run the pump at high speed for 2 minutes. If priming is not complete after 2 minutes, turn Off the pump and repeat the process.

FOLLOW THESE STEPS TO PRIME ANY ONE-SPEED PUMP, INCLUDING A CIRCULATION PUMP:

Press the button (JETS 1, JETS 2, etc.) for that pump once to turn it On. Run the pump for 2 minutes. If priming is not complete after 2 minutes, turn Off the pump and repeat the process.

WHICH PUMP IS THE HEATER PUMP?

When the spa has just entered Priming Mode, press the Light button **E** and see if any water flows. If so, you have a circulation pump serving as the heater pump. If not, a two-speed pump serves as the heater pump. A circulation pump is controlled with the Light button **E** (in Priming Mode only). A two-speed heater pump is controlled by pressing the JETS 1 button **B**.

Once the heater pump is primed, prime any additional pumps.

IMPORTANT: A pump should not be allowed to run without priming for more than 2 minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4 minute Priming Mode. Doing so may cause damage to the pump and in some cases may cause the system to energize the heater and go into an overheat condition.

EXITING PRIMING MODE

Priming Mode ends automatically. However, you can manually exit Priming Mode during this time by pressing the Back button **A**.

When Priming Mode ends (automatically or manually) the panel will display dashes **F**. Once the control system cycles water through the heater for one minute, the dashes will be replaced by the water temperature.

CLIM8ZONE™ MODES

U

3 SPEED MODES:

1 - Auto Smart (Default)

- For heating or cooling.
- Uses artificial intelligence.
- Variable heating/cooling capacity.
- The Clim8zone™ computer automatically adjusts the compressor frequency up or down using an algorithm based on the ambient air temperature and the water temperature.
- This algorithm balances a best case in most conditions for efficiency and noise vs heating/ cooling output of the Clim8zone™ unit. Uses artificial intelligence.

2 - Manual High

- For heating or cooling.
- Highest heating capacity.
- Fastest water heating/cooling
- Low COP (i.e. Low Energy Efficiency).
- High compressor frequency – Fixed, i.e. does not adjust based on environmental conditions.

3 - Manual Low

- For heating or cooling.
- Lowest Heating/Cooling Capacity.
- Slowest Water Heating.
- High COP (i.e. High Energy Efficiency).
- Low Compressor Frequency – Fixed, i.e. does not adjust based on environmental conditions.

4 Clim8zone™ modes:

1 - Heat and Cool

This mode heats and cools the spa water with the Clim8zone™ unit enabled.

2 - Heat Only

This mode only heats the spa water. All cooling with the Clim8zone™ unit is disabled.

3 - Cool Only

This mode only cools the spa water. All heating on the spa is disabled.

4 - Disabled

This mode only cools the spa water. All heating on the spa is disabled.

4 EHEATER MODES:

Modes 1 - 3 are manually selectable.

1 - Continuous

The electric heater (eHeater) is continuously enabled.

2 - Auto

Auto mode activates the electric heater if the water temperature at the start of heating is at least 10 °F below the set temperature.

3 - Disabled

The electric heater is continuously disabled.

4 - Enabled

The electric heater is continuously enabled. This setting is selected automatically when Clim8zone™ mode is set to "Disabled."



THE MAIN SCREEN WITH CLIM8ZONE™

The following two icons appear on the Main screen when the spa has Clim8zone™.

A - Electric heater

B - Clim8zone™

Each icon changes color to indicate the state of the electric heater and/or Clim8zone™ unit.

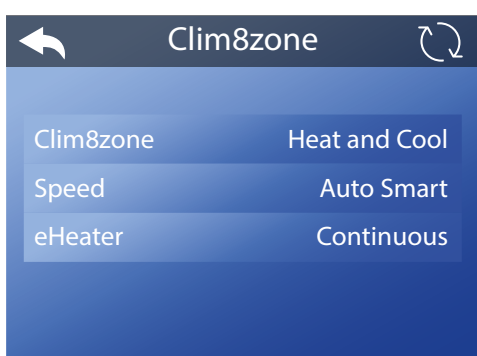
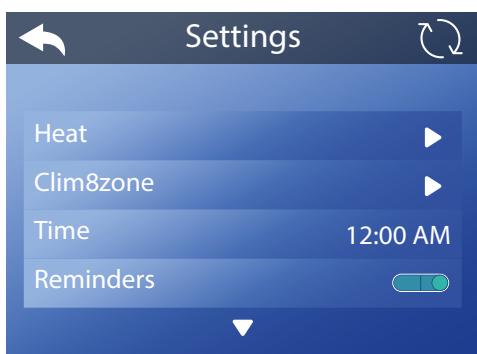
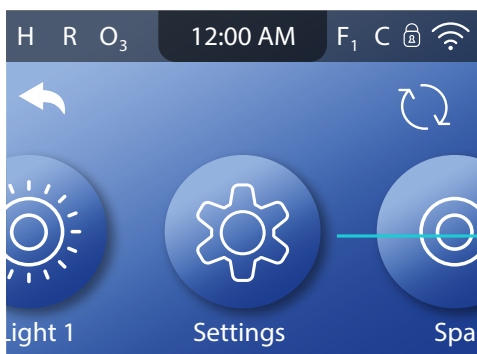
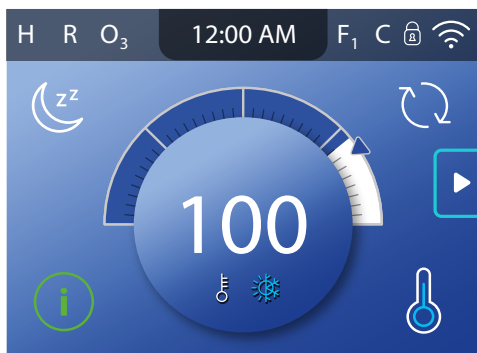
Red: Heating

Blue: Cooling

White: Inactive

Grey: Disabled





CLIM8ZONETM MODE SETUP

Follow these steps to set the mode Clim8zone™

- 1 - Go to the Main Menu **A**, Settings **B**, Clim8zone **C**, Speed **D** to view the Clim8zone screen **E**.
- 2 - Select a mode **F**.
- 3 - Cancel your setting **H**, or save your setting **G**.

Clim8zone™ Modes:

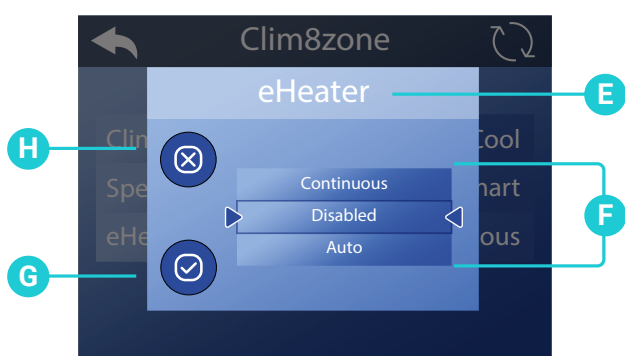
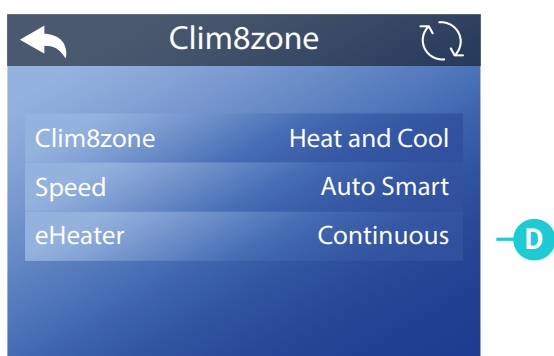
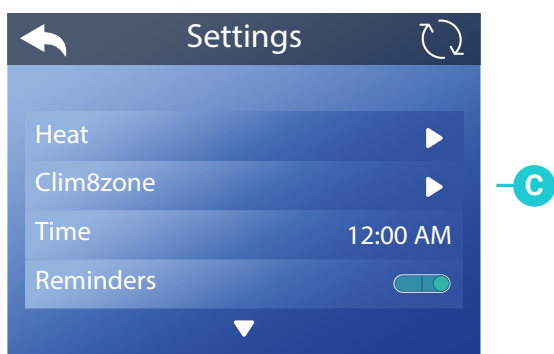
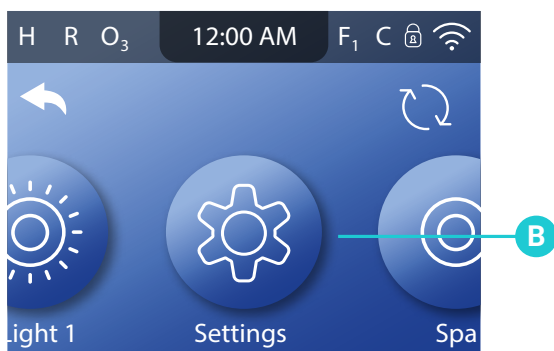
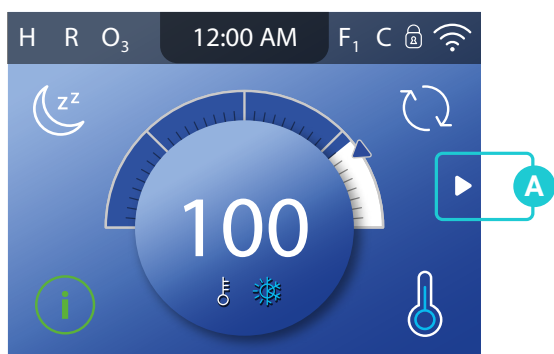
Heat and Cool

Heat Only

Cool Only

Disabled

See "Navigate Settings Menu".



SET EHEATER MODE

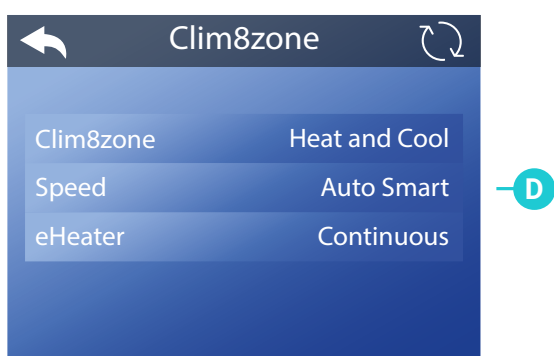
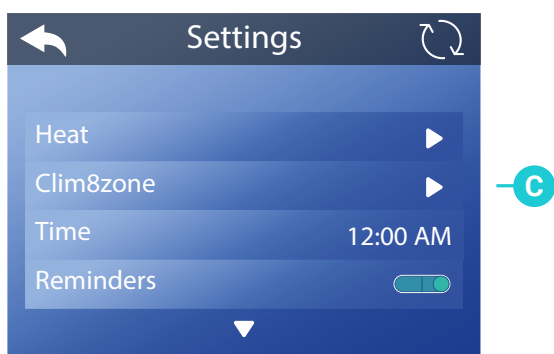
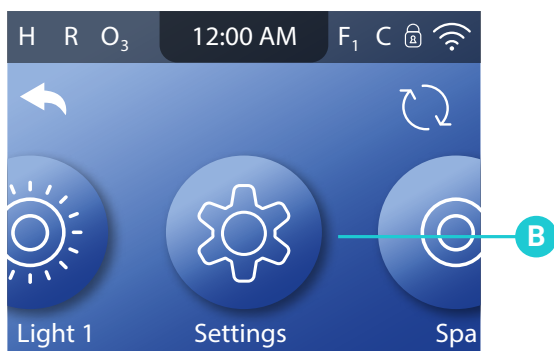
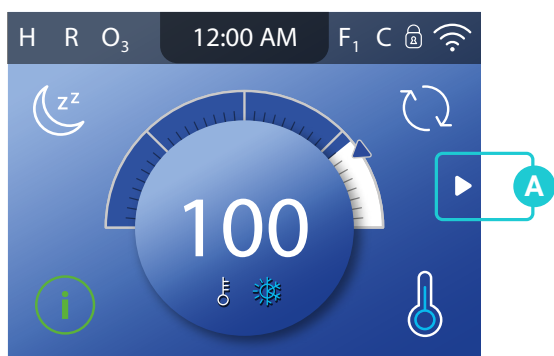
Follow these steps to set the Speed mode:

- 1 - Go to the Main Menu **A**, Settings **B**, Clim8zone **C**, eHeater **D** to view the eHeater screen **E**.
- 2 - Select a mode **F**.
- 3 - Cancel your setting **H**, or save your setting **G**.

eHeater Modes:
Continuous
Disabled
Auto

NOTE: eHeater mode is not available when Clim8zone™ is set to "Cool Only" or "Disabled" (view the chapter of reference).

See "Navigate Settings Menu".



SET THE SPEED MODE

Follow these steps to set the Speed mode:

- 1 - Go to the Main Menu **A**, Settings **B**, Clim8zone **C**, Speed **D** to view the Speed screen **E**.
- 2 - Select a mode **F**.
- 3 - Cancel your setting **H**, or save your setting **G**.



Clim8zone™ supports speed modes.



Clim8zone™ does not support speed modes.

SPA BEHAVIOR

FILTRATION AND OZONE

If your spa does not have a circulation pump, pump 1 low and the ozone generator will run during a filter cycle. If your spa has a circulation pump, the ozone will run with the circulation pump.

Many control systems are factory-programmed with one filter cycle that will run in the evening (assuming the time-of-day is properly set) when energy rates are often lower. The filter cycle time and duration are programmable (view page 43). A second filter cycle can be enabled as needed.

At the start of each filter cycle, any additional water devices (such as pumps and blower) will also run briefly to purge its plumbing to maintain good water quality.

FREEZE PROTECTION

If the temperature sensors within the control system's heater detect a low enough temperature, then the pump(s) and the blower automatically activate to provide freeze protection. The pump(s) and blower will run either continuously or periodically depending on conditions.

In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

CLEANUP CYCLE (OPTIONAL)

When a pump or blower is turned on by pressing a button on the panel, a clean-up cycle begins 30 minutes after the pump or blower is turned Off or times out. The pump and the ozone generator will run for 30 minutes or more, depending on the control system.

On some control systems, you can change this setting (view page 55).

PUMPS

Press the JETS button once to turn Pump 1 On or Off, and to shift between low-speed and high-speed if equipped. If left running,

Pump 1 will turn Off after a time-out period.

If your spa does not have a circulation pump, Pump 1 will run at low speed when the blower or any other pump is on.

If the spa is in Ready Mode (view page 49), Pump 1 low may also activate for at least 1 minute every once in a while to detect the spa temperature (polling) and then to heat to the set temperature if needed. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.

3 CIRCULATION PUMP MODES

If the spa is equipped with a circulation pump, it will be configured to work in one of the following three modes: MODE 1: The circulation pump will operate continuously (24 hours) with the exception of turning Off for at least 30 minutes at a time when the water temperature reaches 3°F (1.5°C) above the set temperature (most likely to happen in very hot climates).

MODE 2: The circulation pump will stay on continuously, regardless of the water temperature.

MODE 3: A programmable circulation pump will come on when the control system is checking the water temperature (polling), during filter cycles, during freeze conditions, or when another pump is on.

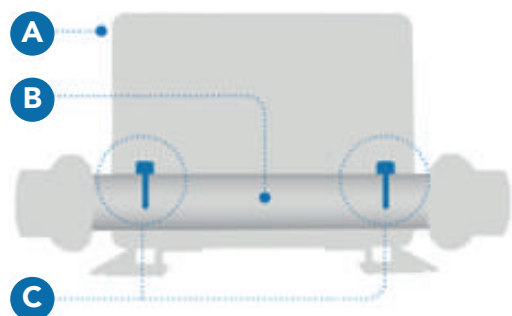
Circulation pump modes are determined by the Manufacturer and cannot be changed in the field.

HOW DOES YOUR CONTROL SYSTEM CHECK THE WATER TEMPERATURE?

The control system **A** activates a pump that circulates water from the spa tub through the water heater **B** shown below. The water heater contains two temperature sensors **C**. When water flows around the sensors, the control system calculates the water temperature. This process is referred to as "polling" in this user guide.

HEATER PUMP

The heater pump is any pump dedicated to circulating water through the water heater. If your spa has a circulation pump, the circulation pump will serve as the heater pump. If your spa does not have a circulation pump, a two-speed pump will serve as the heater pump. If the heater pump is a two-speed pump, anytime it is activated automatically (for any reason, including to check the water temperature), it will activate at low speed.



INTRODUCTION

Minipool water that is always clean and clear, but above all bacteriologically pure and free of algae, guarantees safety and comfort for users and offers the pleasure of a safe, relaxing bath.

The pool water must always be disinfected and disinfected and have a residual disinfectant content ready to eliminate any new contaminants that may be brought into the bathtub by people or the environment.



The manufacturer recommends the use of its products as they are tested and compatible with the construction material. The use of different products may cause damage to surfaces over time that is not covered under warranty.

The best disinfectant is **bromine**, as it is heat resistant. The product comes in 20 g slow-release tablets. It performs its maximum sanitising action in water with a pH value between 7.4 and 7.8. The use of bromine is combined with **ZERO PROBLEM antialgae** and **OXIGEN ATTIVO GR granular oxygen**. Oxygen has its own disinfecting power and serves to reactivate bromine when the active disinfecting bromine is transformed into combined bromine. Furthermore, the natural increase in water pH is inhibited.

It is always important to use high quality specific products and to check chemical parameters, in particular the pH and the level of disinfectant. There are specific kits for measuring these parameters.

In addition to chemical products, it is necessary to remember that the bottom and sides of the bathtub should be thoroughly brushed and the filtration system left running for an adequate number of hours per day to allow the removal of suspended water pollutants.

Two simple but fundamental operations should be carried out on a regular basis:

1 Check the fundamental water parameters (pH, hardness, alkalinity) - page 39

If the three parameters are not perfectly balanced, larger quantities of additives and disinfectants may be needed followed by maintenance.

For example, excessively alkaline water makes it difficult to keep the pH stable. In turn, an unstable pH fosters the formation of algae and therefore requires the use of algaecides in quantities higher than normal.

These parameters are measured by using test strips that are easily found in specialised shops. If necessary, it is possible to use specific products to bring them back to optimal values.

2 Disinfection and water cleaning - page 41

A very important operation for good hygiene and user comfort: products are added to the water that can eliminate bacteria and fungi (disinfectants like oxygen or bromine) and make it more clear and crystalline (additives like algaecides, anti-foam, flocculants, etc.). Water should be checked periodically to see if the concentration of disinfectants and additives is sufficient to guarantee their effectiveness.

These two operations must be done very **frequently**, taking into account the more or less intensive use of the minipool, the number of users and the quality of the water used. Other actions, like the emptying of the minipool, are **occasional** and should be done only when needed.



It is recommended to have your minipool checked at least 1-2 times per year (for example at the end and beginning of the season for outdoor installations) by contacting the Manufacturer's service centres. This will guarantee excellent performance and durability over time, especially in the case of very intensive use.

The suggestions on the following pages only cover some general aspects. If there are problems or special needs, contact the manufacturer for suggestions.

TABLE OF ACTIVITIES

Below is a table that summarises all the activities necessary for proper maintenance. Those in light blue should be carried out frequently.

ACTIVITY	INFORMATION	FREQUENCY...
CHECK PH VALUES, HARDNESS AND ALKALINITY	1 page 39	Why check: minipool water that is always clean and clear, but above all bacteriologically pure and free of algae, guarantees safety and comfort for users and offers the pleasure of a safe, relaxing bath. How often: the minipool water (both its basic parameters and the concentration of disinfectants and additives) should be checked 1 - 2 times a week under normal conditions of use (e.g., family use) or daily if the minipool is used intensively (e.g., wellness centres) or if it is installed outdoors. In this latter case, check the water especially after intense rain. Which products to use: reactive strips or tablets, liquid reagents or instruments for measuring the parameters are readily available in specialised shops.
DISINFECTION AND CLEANING OF THE WATER (FROM POLLUTANTS AND ALGAE)	2 page 41	For a disinfectant, the Manufacturer recommends its products (bromine - 20 g slow-release tablets - combined with the use of ZERO PROBLEM antialgae and OXIGEN ATTIVO GR granular oxygen). If algae has already developed in the bathtub, the problem should be solved as soon as possible, emptying the minipool, brushing the walls and bottom of the spa thoroughly and performing a shock treatment with liquid oxygen (OXI BLU).
CLEANING/REPLACING THE PAPER FILTER	3 page 45	Why check: the paper filter is a cylinder-shaped cartridge, mainly consisting of cellulose and polyamide. The water in the minipool enters the filter through a hole and comes out from another, filtered and cleaned thanks to the cartridge within, capable of retaining even very fine dust. How often: cleaning/replacing the paper filter depends on how often the minipool is used. In general, rinse the cartridge every 2-3 weeks and replace it with every change of water. Which products to use: for cleaning just remove the cartridge from the filter and wash it with a jet of clean water to remove hair and other foreign substances. For a deeper cleaning, leave the cartridge immersed in a solution suitable for cleaning this type of filter, possibly overnight. In any case refer to the instructions provided by the manufacturer of the cleaning product used.
EMPTYING AND FILLING THE MINIPOOL	4 page 46 5 page 47	How often and which products to use: the frequency of this operation depends on many factors, for example more or less intensive use, outdoor or indoor installation, water quality, etc. In general, it is good practice to empty the bathtub every 30 days by performing an energetic disinfection of the pipes, using the products contained in the SPA CLEANING KIT.
CLEANING THE SURFACES	6 page 49	How often and which products to use: cleaning the bathtub is an important operation that should be carried out frequently (at least twice a week), by brushing the walls and the bottom of the spa. It is also essential to sterilize the pipes and the recirculation system, an operation that can be easily carried out before emptying the pool with the products contained in the SPA CLEANING KIT.  <i>The manufacturer recommends the use of its products as they are tested and compatible with the construction material. The use of different products may cause damage to surfaces over time that is not covered under warranty.</i>

1 CHECKING THE WATER PARAMETERS

Specific studies on water balance have found a correlation of equilibrium among the values of **pH**, **hardness**, **alkalinity**: they must therefore be **measured** frequently and then **balanced**.

Remember that:

- the **pH** must be between **7.4-7.8** to allow the bromine disinfectants to be most effective and long-lasting;
- the optimal **alkalinity** is in the range of **8-12.5 °f**;
- The **hardness** should not exceed **25 °f**. It can be kept under control with sequestering agents specific or limescale.

Only their perfect balance will guarantee water that is clean, clear and low maintenance.

CONVERSION TABLE

°D= German degrees
 °f= French degrees
 ppm CaCO₃= American grade (parts per million)
 mg/l= milligrams per litre
 g/m³= grams per cubic metre
 1 °D = 17.8 ppm CaCO₃
 1 °D = 1.78 °f
 1 °f = 0.56 °D
 1 °f = 10 ppm CaCO₃



More information

TAP WATER AND WELL WATER

To ensure maximum hygiene and durability of the minipool it is essential to pay close attention to the quality of the water used.

Tap water guarantees microbiological purity and is free of metal particles (not retained by the paper filter) and organic substances. In contrast, well water often contains traces of oxides, organic substances and bacteria that can cause algae blooms and serious damage to the minipool.

WATER HARDNESS

Water hardness is determined by the amount of calcium and magnesium salts dissolved in the water.

Water classification:

.....up to 7 °f	=	Very soft water
From 7 °f to 14 °f	=	Soft water
From 14 °f to 22 °f	=	Slightly hard water
From 22 °f to 32 °f	=	Fairly hard water
From 32 °f to 54 °f	=	Hard water
.....more than 54 °f	=	Very hard water

(1 °f = 10 mg calcium carbonate per litre of water)

WATER ALKALINITY

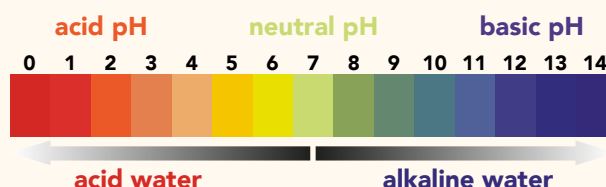
Alkalinity represents the quantity of some alkaline substances (carbonates, bicarbonates, hydrates) dissolved in water. Values lower than 80 mg/l or higher than 125 mg/l can alter the pH uncontrollably making maintenance of the water quality very difficult.

WATER PH

What is pH?

The pH indicates the concentration of hydrogen ions (H⁺) in the water and represents its acidity or alkalinity. Maintaining the pH within optimal values (**7.4-7.8** - neutral value) allows for:

- well-being for bathers (the pH of the skin, mucous membranes and eyes is slightly acidic, close to 7, so this value meets this need)
- Duration of the minipool itself
- The best performance of water treatment products, resulting in lower consumption.



The optimal values for incoming water are highlighted in the table: the three fundamental water parameters (pH, hardness and alkalinity) are frequently measured and then balanced using specific products, readily available in specialised stores.



Minipools installed outdoors or subject to intensive use require more frequent checks of the three parameters as they are subject to the weather (e.g., heat from the sun and rain) and organic substances carried into the water by users.

PARAMETER	OPTIMAL VALUES between...	VALUES ABOVE OR BELOW CAN...
HARDNESS (TH)	between 10 °f and 25 °f (100 mg/l-250 mg/l)	...cause build-up that over time can cause significant damage to the walls of the minipool, the pipes, the filters, as well as the heating unit and pumps. Very hard waters are conducive to the proliferation of algae.
 The unit of measurement of hardness is °f (French degree), where one degree represents 10 mg of calcium carbonate (CaCO ₃) - limestone - per litre of water (1°f = 10 mg of calcium carbonate per litre of water). The simplest means to measure hardness is to use a reagent in drops or soluble tablets - readily available in specialised stores - and follow the instructions attached to the product. During pre-installation/installation of the minipool, if the water hardness was not optimal, the installer should have added a cation exchange resin water softener. If this was not done, it is possible to use specific products available in specialised shops (for example organic or inorganic stabilisers or sequestering agents).		
pH	for bromine treatments it is recommended to keep the pH in the range 7.4 to 7.8	...irritation of the eyes and skin of people in the water, water with little sanitising power, excessive consumption of chemicals, decrease in the duration of the minipool components.
 The simplest way to measure pH is to use a reagent (usually phenol red is used) in drops or soluble tablets, readily available in specialised stores. When placed in contact with the water to be analysed, it takes on a colour ranging from red (pH 8.4) to yellow (pH 6.8). By comparing the colour with colour tables one can quickly identify the pH of the water. <i>If the pH is found to be lower or higher than optimal, it is necessary to use an acidity/basicity adjuster, easily available in specialised shops or by contacting the Manufacturer. For the quantities follow the product's instructions. Regardless of the formulation used, it is recommended to spread the product in different parts of the minipool to avoid creating excessive concentrations.</i> The pH should usually be checked 1 - 2 times a week under normal conditions of use (e.g., family use) or daily if the minipool is used intensively (e.g., wellness centres) or if it is installed outdoors. In the latter case, check the pH of the water after each storm.		
ALKALINITY (CAT)	between 80 and 125 mg/l (8-12.5 °f)	...more likely uncontrollable changes in pH
 The alkalinity value is determined by the following chemical compounds present in the water: carbon dioxide, carbonates, bicarbonates and hydrates. It is very important to stabilize the total alkalinity value as it also influences the pH. The alkalinity is found using the appropriate test kits that are readily available in specialised shops. Alkalinity can vary: • adding dry acid to the bathtub (to lower it); • adding sodium bicarbonate to the bathtub (to increase it).		

2 DISINFECTION AND CLEANING OF THE WATER

Various micro-organisms (bacteria, fungi, algae) can proliferate in the water of the minipool, fostered by the constant heat of the water.

Only some of them can be a real danger for those who use the minipool, however these micro-organisms can proliferate quickly making the water cloudy and the surfaces slippery.

There are essentially two types of treatments to be carried out:

2A Disinfection (oxygen or bromine).

2B Water cleaning (anti-algae, flocculants, etc.).

The products must be requested from the Manufacturer. For methods of use carefully follow the product's instructions.



The use of chlorine for the disinfection of the minipool is strongly discouraged as it is not suitable for the construction material (stratified resin) and not very stable at high temperatures.



When using multiple additives avoid using them at the same time (try to schedule the activities 2-3 days apart) and note their compatibility: read the information labels or request information from the product dealer.



After performing the treatments - only when there are no people in the water - activate the whirlpool function for 20 or 30 minutes and do not use the minipool until the disinfectants/additives have dropped to normal values.



Frequently check the concentration of additives in the minipool water (test strips are readily available). Some are sensitive to the action of the sun's rays or are diluted by rain or the organic substances left in the water by users.



The frequency of disinfection also depends on the intensity of use of the minipool. If it is used in public areas (e.g., wellness centre), the water must be checked and disinfected on a **daily basis** by specialised and trained personnel.



DISINFECTION (ELIMINATION OF THE BACTERIAL AND FUNGAL LOAD)

For a complete sanitisation of the water we recommend the use of **bromine** with reactivation using **granular oxygen**.

Oxygen treatment (domestic use)

This method of sanitisation is ideal for domestic use, i.e., when the minipool is used by a limited number of people for non-prolonged periods. It naturally creates crystalline water and is less aggressive towards the skin and hair, it does not have an unpleasant odour and does not alter the pH of the water.

Usually oxygen-based treatments combine two components: oxygen tablets and a liquid activator.

Bromine treatment (intensive use)

Bromine is a halogen and should be added to water at pre-established intervals (usually in the form of water-soluble tablets).

Unlike chlorine, bromine is also effective at high temperatures and with higher pH.

Not producing chloramines, it does not cause unpleasant odours, does not irritate the eyes and skin and is easily reactivated.



More information

SUPER-DISINFECTION (SHOCK TREATMENT)

This operation is an intensive disinfection treatment that consists in adding a quantity of disinfectant to the water that is slightly higher than what is used normally in order to oxidise the organic substances and eliminate the micro-organisms and algae.

The frequency is variable: it becomes indispensable if the minipool remains unused for a long time, but it can vary if it is used intensively, if it is installed outdoors because it is more exposed to pollutants and to the sun's rays.

In general, the minipool used by a family needs super-disinfection every 15 days, if used by a wellness centre at least once a week.

After completing the treatment, do not use the minipool until the value of the disinfectant has dropped to normal values.

Shock treatment can be performed using the product **OXI BLU**, made with stabilised liquid oxygen.

2B

CLEANING THE WATER

The following is a list of some possible treatments: the choice of formulation (liquid, granules, tablets, etc.) and the frequency of use should depend on your needs, the position of the minipool (outdoor or indoor) and the water quality.

Elimination of algae

Algae are single or multi-celled organisms that can form in minipools if the water is not properly disinfected. They are born from spores introduced by the environment, and if they enter water that has not been disinfected they can quickly reproduce, covering the entire bathtub. In addition to turning the water an unsightly green colour, the algae make the walls and the bottom of the pool slippery and therefore dangerous, staining them in a permanent manner. Green algae are the most common, but there are also others that are black, red or yellow.

An effective anti-algae product (**ZERO PROBLEM**) prevents the growth of algae in the minipool, particularly if it is installed outdoors and therefore exposed to long periods of sunlight. For more information on how to use the disinfectant and its dosages follow the instructions on the product's label.

If **algae has already developed in the bathtub**, the problem should be solved as soon as possible, emptying the minipool, brushing the walls and bottom of the spa thoroughly and performing a shock treatment with liquid oxygen (**OXI BLU**).



If there is a paper filter **the use of these treatments is not recommended**. However, if you need to use them, 24-48 hours after the treatment carefully wash the filter cartridge or replace it. Alternatively, use an old cartridge that must then be replaced.

Flocculation treatment

Flocculation, as a support for filtration, is carried out to remove microscopic suspensions from the minipool water as they may cause cloudiness (e.g., suntan oil, lotions, cosmetics, etc.).

Flocculant is a product that, when in contact with water, is hydrated and increases its volume. The hydrated molecules "bind" to each other to create cross-linked flakes.



If there is a paper filter **the use of these treatments is not recommended**. However, if you need to use them, 24-48 hours after the treatment carefully wash the filter cartridge or replace it. Alternatively, use an old cartridge that must then be replaced.

Anti-foam treatment

Anti-foam products added to the water in the minipool reduce the formation of foam following the introduction of soaps, personal detergents, suntan oils or other substances.

Organic/inorganic sequestering agent

Chemical products specifically for reducing the problems associated with the presence of metals (iron, manganese) like limescale build-up and colours of water otherwise difficult to resolve. Only to be used if the content of these metals is not too high, otherwise find an alternative source of supply water.

Anti-fat treatment

Useful for removing fat deposits from the water in the minipool (e.g., sweat, tanning creams, etc.) that can cloud the water.

Anti-limescale treatment

The main problem of water hardness is the risk of precipitation of calcium carbonate with consequent build-up in all sections of the system and the minipool.

The solubility of calcium carbonate is influenced greatly by pH: the higher the pH the greater the risk of precipitation.

Anti-limescale additives prevent the deposit of limescale on the surfaces of the bathtub, keeping the pipes, pumps, heat exchangers and filters clean.

They also prevent the formation of stains in the bathtub due to the iron present in the water.



More information

OZONE

TREESSE minipools can be equipped with an ozonator, which helps to disinfect and purify the water, but we also recommend sanitising and maintenance treatments using specific products to keep the water impeccably clean and clear.

Ozone is a very safe water sanitisation system as it eliminates 99.9% of micro-organisms, bacteria, viruses and parasites.

The use of ozone offers important advantages: it does not release flavours or odours, it does not irritate the eyes or the skin and reduces the use of further products for the disinfection of water.

The action of ozone is completed optimally by the use of bromine tablets.

TREATMENT CALENDAR

Use this calendar, making a copy of it if necessary, to note the days in which the treatments were done or when they are scheduled.



When using multiple additives avoid using them at the same time (try to schedule the activities 2-3 days apart) and note their compatibility: read the information labels or request information from the product dealer.

TREATMENT	DATE	DATE	DATE	DATE	DATE	DATE
Disinfectant treatment:						
OXYGEN						
BROMINE						
SUPER-DISINFECTION						
Anti-algae treatment						
Flocculant						
Anti-foam treatment						
Anti-fat treatment						
Sequestering agent						
Parameter check						
Minipool water change						

TREATMENT	DATE	DATE	DATE	DATE	DATE	DATE
Disinfectant treatment:						
OXYGEN						
BROMINE						
SUPER-DISINFECTION						
Anti-algae treatment						
Flocculant						
Anti-foam treatment						
Anti-fat treatment						
Sequestering agent						
Parameter check						
Minipool water change						

TREATMENT	DATE	DATE	DATE	DATE	DATE	DATE
Disinfectant treatment:						
OXYGEN						
BROMINE						
SUPER-DISINFECTION						
Anti-algae treatment						
Flocculant						
Anti-foam treatment						
Anti-fat treatment						
Sequestering agent						
Parameter check						
Minipool water change						

TREATMENT	DATE	DATE	DATE	DATE	DATE	DATE
Disinfectant treatment:						
OXYGEN						
BROMINE						
SUPER-DISINFECTION						
Anti-algae treatment						
Flocculant						
Anti-foam treatment						
Anti-fat treatment						
Sequestering agent						
Parameter check						
Minipool water change						

1 CLEANING THE PAPER FILTER



Cartridge cleaning must be done after having switched off the minipool's main power.

Cleaning/replacing the paper filter depends on how often the minipool is used. In general, rinse the cartridge every **2-3 weeks** and replace it with every change of water.

For cleaning just remove the cartridge from the filter and wash it with a jet of clean water to remove hair and other foreign substances. For a deeper cleaning, leave the cartridge immersed in a solution suitable for cleaning this type of filter, possibly overnight. In any case refer to the instructions provided by the manufacturer of the cleaning product used.



When cleaning is complete, wait until the cartridge is dry and then place it in its compartment.



For replacement, it is recommended to dispose of the dirty filters according to the regulations in force in the country of use.

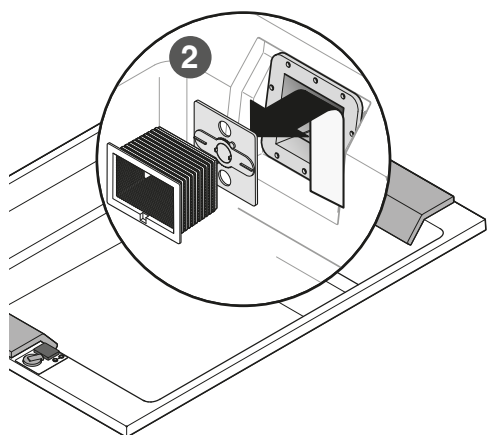
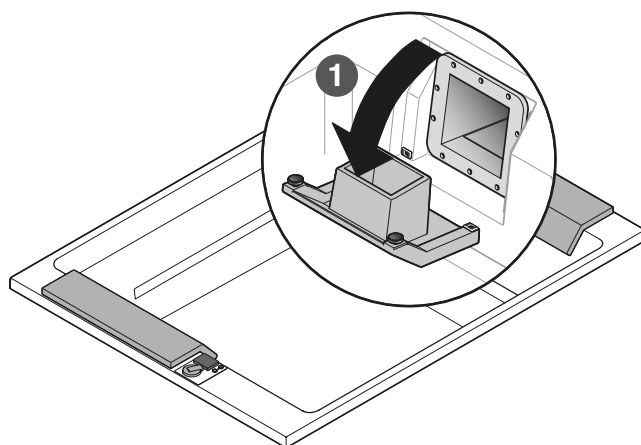


More information

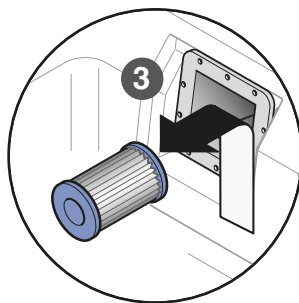
WHAT IS THE PAPER FILTER?

The paper filter is a cylinder-shaped cartridge, mainly consisting of cellulose and polyamide.

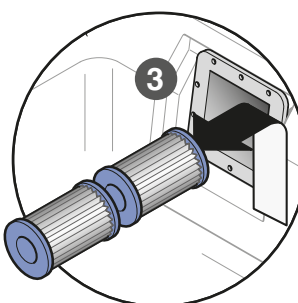
The water in the minipool enters the filter through a hole and comes out from another, filtered and cleaned thanks to the cartridge within, capable of retaining even very fine dust.



**SOUL
120**



**SOUL
150**



2 EMPTYING THE SPA

In general it is good practice to empty the pool every **30 days**, brushing the bottom and surfaces of the spa and performing an energetic disinfection of the pipes, using the products contained in the **SPA CLEANING KIT**. The frequency of this operation depends on many factors, for example more or less intensive use, outdoor or indoor installation, water quality, etc. If the spa is installed outdoors, emptying must always be done at the end of the summer season, taking care to also empty the water supply system.

Emptying takes place by carrying out the operations indicated in the figure on the side.

If it is necessary to refill the spa, see the pertinent chapter on page 72.



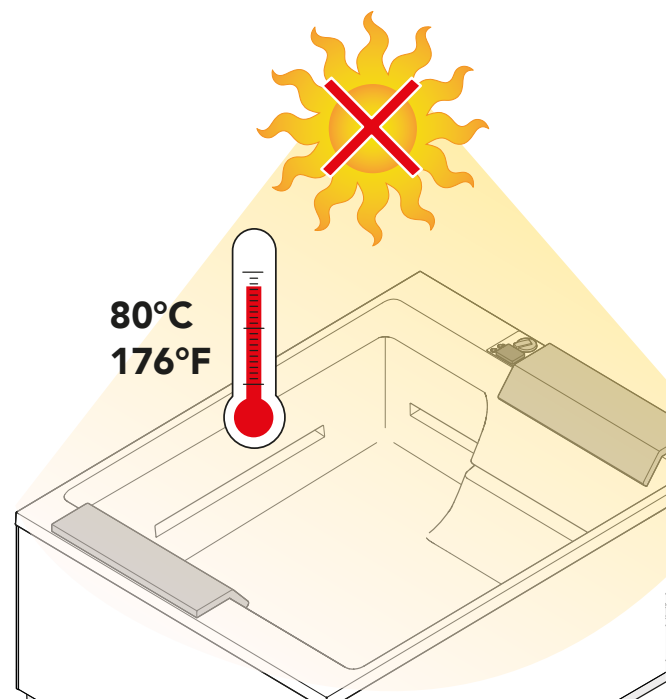
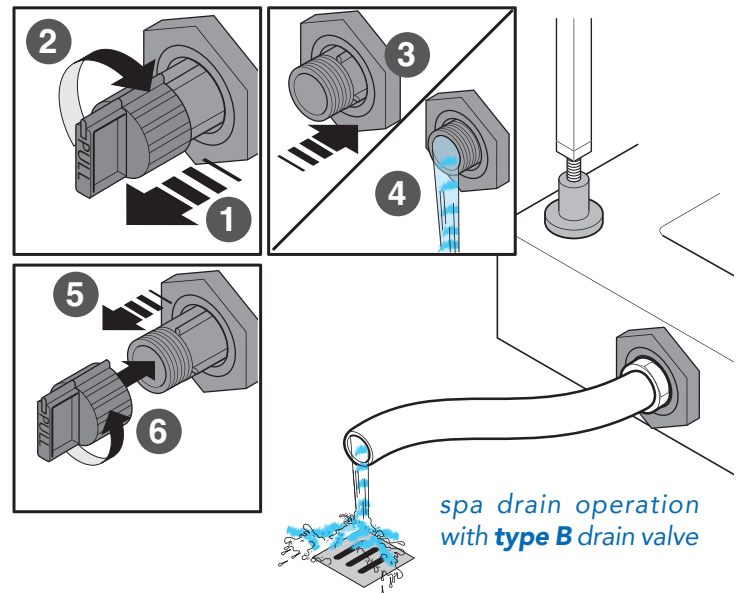
The water can be drained at any time, without people inside the spa. It is advisable to always empty the spa during maintenance and at the end of the season.



Before emptying the spa, especially if a shock treatment has just been performed, make sure that the values of disinfectants and additives are at normal values.



Do not leave the empty spa in **DIRECT SUNLIGHT**. The surface temperature could rise above 80°C resulting in serious damage, including cavitation and the deformation of the surface and components. Damage caused by direct exposure to sunlight is not covered by the warranty. In such conditions place a cover (fixed or mobile) to protect the spa.



3 FILLING THE SPA

Perform a preliminary cleaning of the spa using a bit of water and a mild detergent.

Do not use cloths or cleaners that are abrasive, aggressive or that contain solvents because they could irreparably damage the surface of the spa.



Do not start any operation until the spa has been completely filled, otherwise the spa could be damaged.

Before filling, once again check the quality of the water supply. This is very important for the well-being of the users and for the long life of the spa.



For more information see chapter "Water treatment" on page 63

FILLING THE SPA

For filling, use a rubber hose as shown in the figure. The water used must meet the requirements detailed in the previous pages and summarised here:

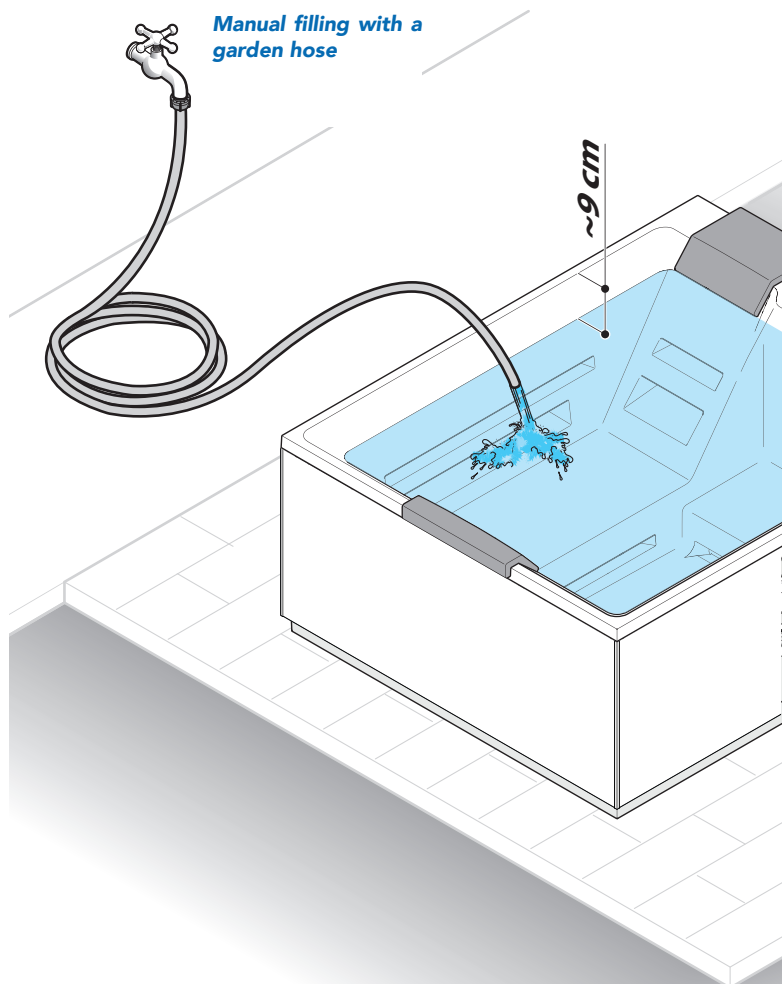
Potability

*Hardness (TH): between 10°F and 25°F
(100 mg/l-250 mg/l)*

pH: between 7.4 and 7.8

Alkalinity: 80 and 125 mg/l (8-12.5°F)

Fill the spa until the water reaches about 6-7 cm from the upper edge and in any case until the "LL" indication disappears.





NON-USE OF THE SPA FOR PROLONGED PERIODS

In case of prolonged inactivity or at the end of the summer season it is good to carry out some simple operations that preserve the spa during inactivity.

CLOSING THE SPA

- ① disconnect the spa power switch;
- ② empty the spa by opening the drainage valve;
- ③ Remove the filter cartridges and dispose of them following the current regulations in the country of use (see page 70);
- ④ use a soft cloth for cleaning, moistened with a specific product for stratified resin spas;
- ⑤ dry the spa with deerskin and protect it with the optional cover.



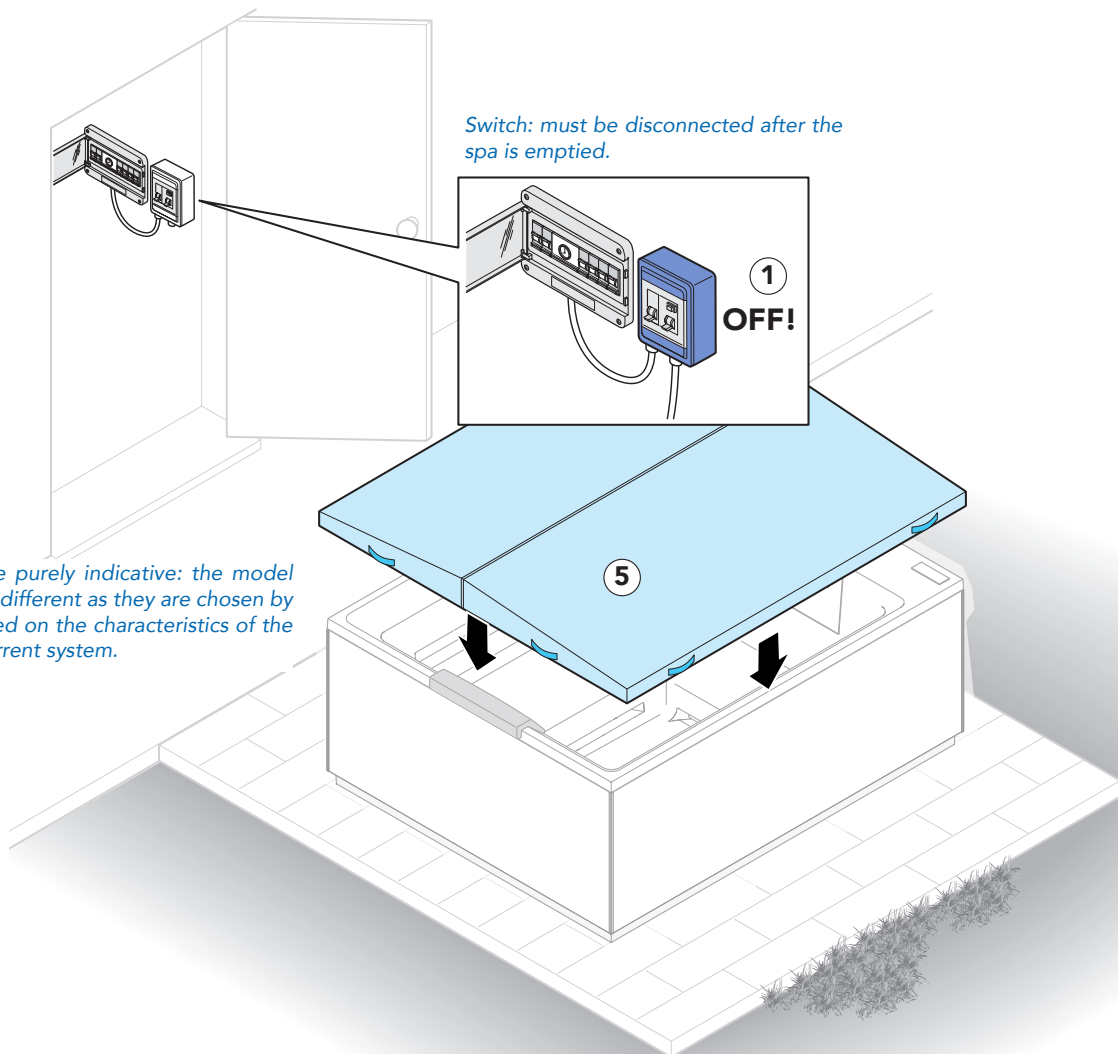
Do not use garden hoses for rinsing so as not to fill the plumbing circuit with water again.

RESTARTING THE SPA AFTER PROLONGED INACTIVITY

- Perform a rapid cleaning of the spa using a bit of water and a detergent for acrylic surfaces. Do not use cloths or cleaners that are abrasive, aggressive or that contain solvents because they could irreparably damage the surface of the spa.
- Check the parameters (hardness, pH, alkalinity) of the water that will be added. If the values are not optimal, after filling add specific products (see page 64).
- Refill the spa and put the new cartridges in the filters (see page 70-72).

To preserve the surfaces it is recommended to apply wax specific for spas in layered resin during periods of inactivity or at the beginning of the season. For methods of use carefully follow the product's instructions.

* The images are purely indicative: the model and type may be different as they are chosen by the plumber based on the characteristics of the water and the current system.



5 CLEANING THE SPA

The surface of your spa is in stratified resin, glossy, polished and resistant: with proper maintenance and cleaning the surface will remain like new for a long, long time!



During maintenance of the spa, use personal protection equipment all the time (i.e. protective gloves and glasses).



Before carrying out any maintenance disconnect the spa's power supply.

For effective and safe cleaning, it is necessary to drain the spa (see page 71).



Do not leave the empty spa in DIRECT SUNLIGHT. The surface temperature could rise above 80°C resulting in serious damage, including cavitation and the deformation of the surface and components (damage caused by direct exposure to sunlight is not covered by the warranty).

Under these conditions or when not used, use a cover to protect the spa (we recommend the optional Treesse cover).

To clean the surfaces use a soft cloth and mild products suited to the bathtub's material (layered resin). They are readily available at any specialised store or upon request to the Manufacturer.

Follow the instructions for use stated on the product label. Always finish by drying it perfectly, preferably with deer-skin.

Absolutely avoid abrasive, aggressive (e.g., solvents or acetone) or alcohol-based cleaners and cloths.

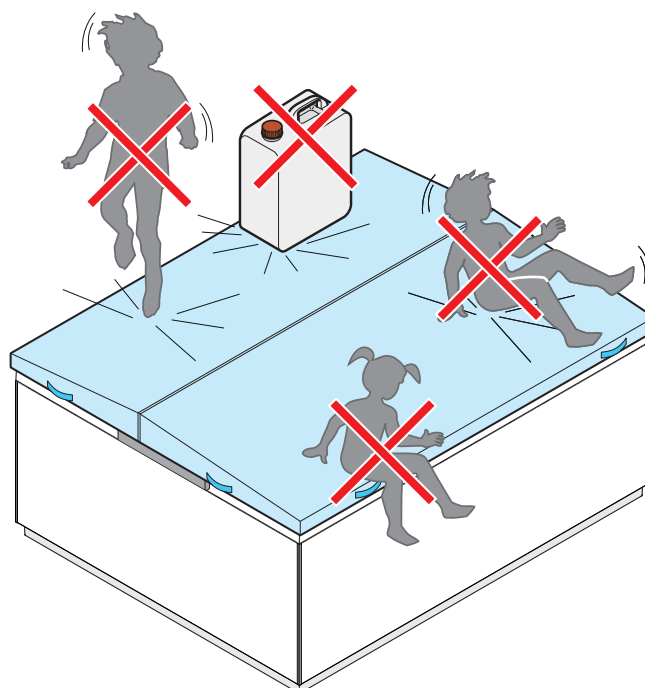
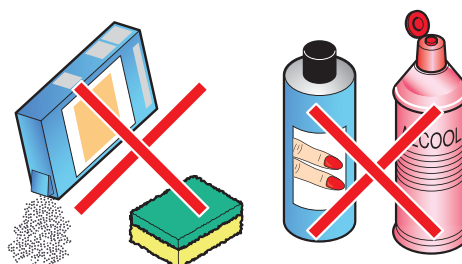
Do not use descaling products as they are too aggressive.

To clean the canvas cover use a soft cloth and mild products. They are readily available at any specialised store or upon request to the Manufacturer.

For the cleaning of the wooden panels (optional) use a soft cloth dampened with water, treating them periodically with protective products for wood.

To restore the brilliance of the surfaces or remove stubborn stains (e.g., nicotine), it is possible to use car polish spread with cotton.

To preserve the surfaces it is recommended to apply wax specific for spas in layered resin during periods of inactivity or at the beginning of the season. For methods of use carefully follow the product's instructions.



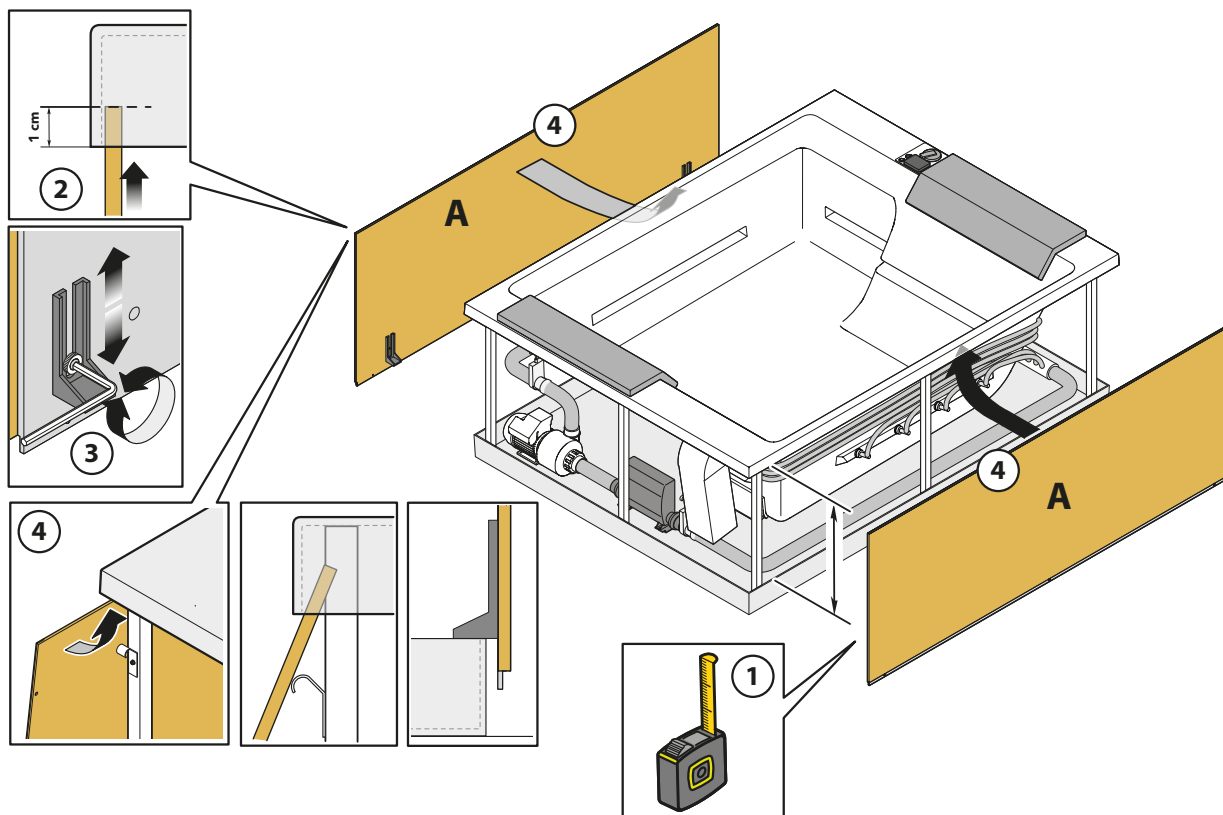
Cover the spa when it is not in use (we recommend the optional Treesse cover). In addition to preserving the surfaces, it maintains the water temperature, protects it from falling leaves or other debris and also the sun's rays (if outdoors) .

The cover is especially useful if the spa is installed outdoors. In this case it might be useful to anchor it with lashing straps in order to prevent the wind from moving it or blowing it off.

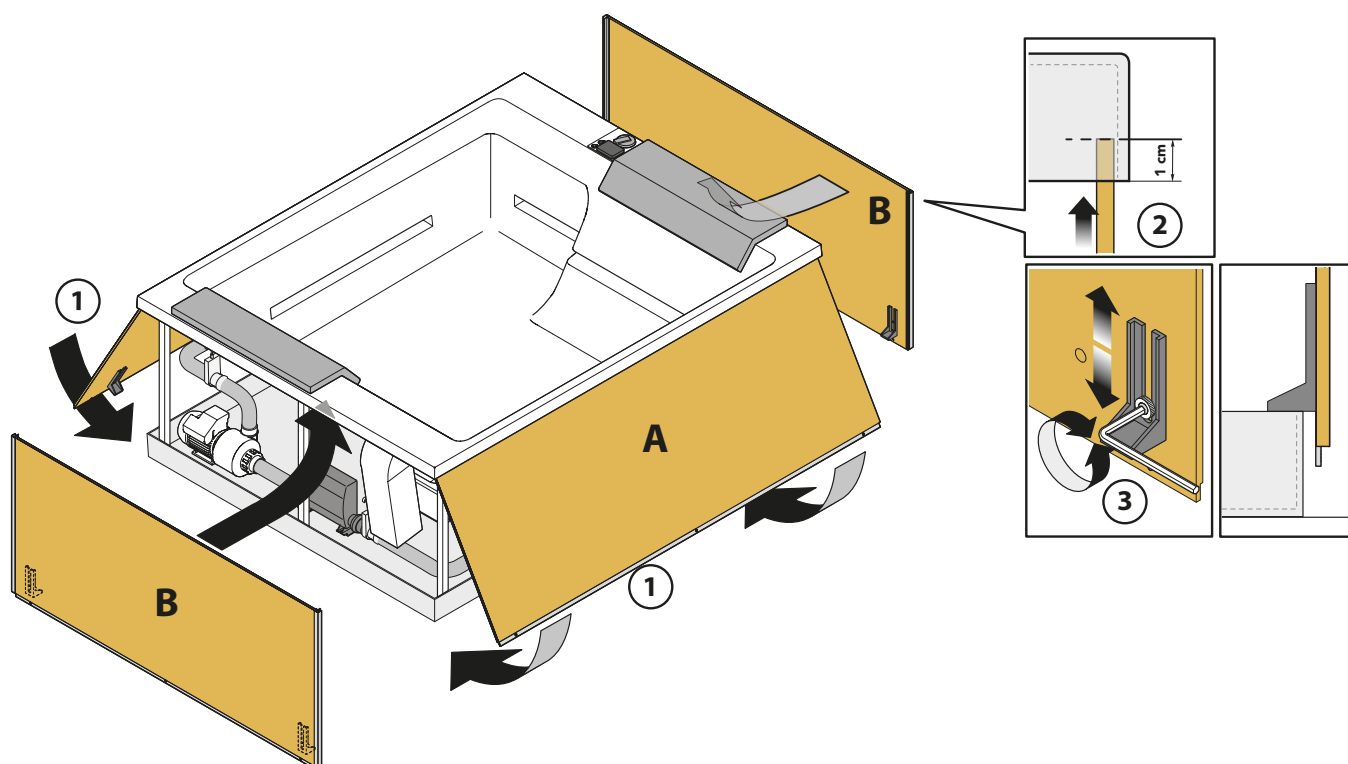


The cover is not designed to support weights. Do not walk, jump, sit or place any objects on it.

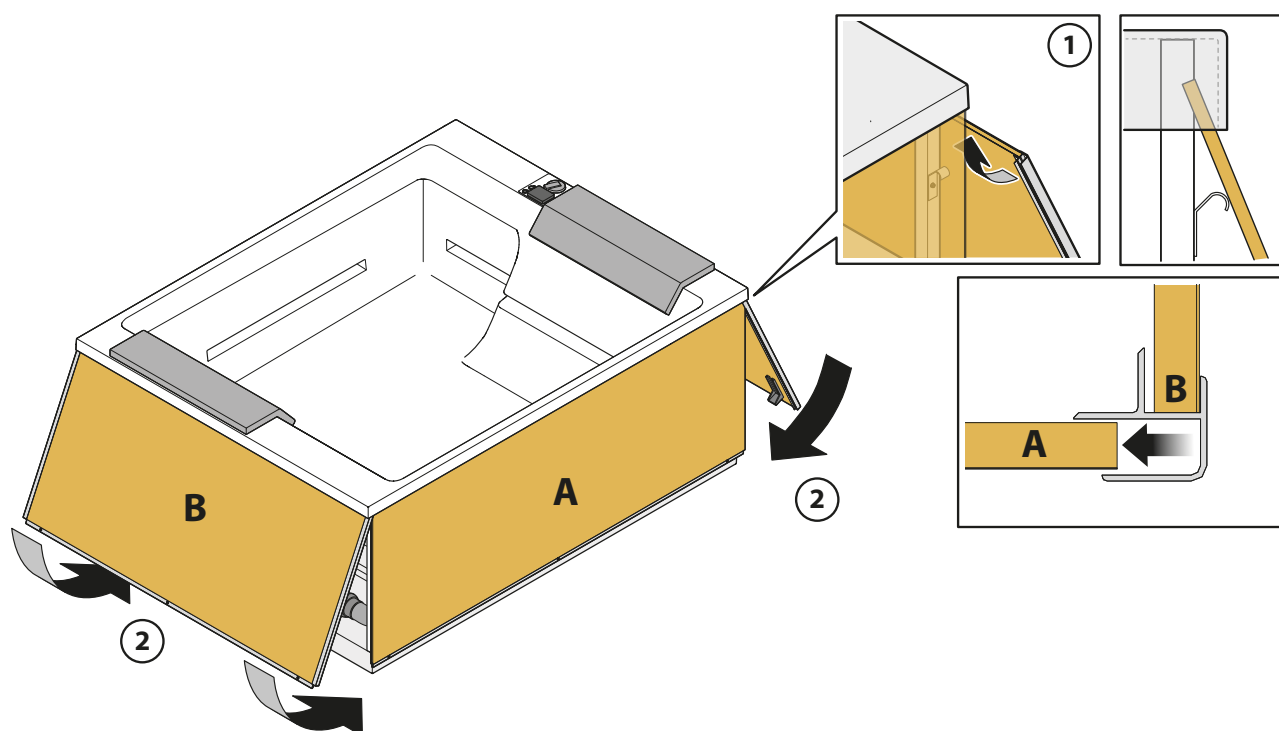
- 1**
- measure from the upper edge of the base tray to the lower part of the tub edge (figure 1)
 - to this measure, add 1 cm, which will be inserted under the edge (figure 2)
 - adjust the bracket to the measurement resulting from the two previous points, and lock it with an Allen key (figure 3).
 - insert panels A (without corner pieces) as indicated in (fig. 4), starting from under the edge and then placing the bracket on the base tray



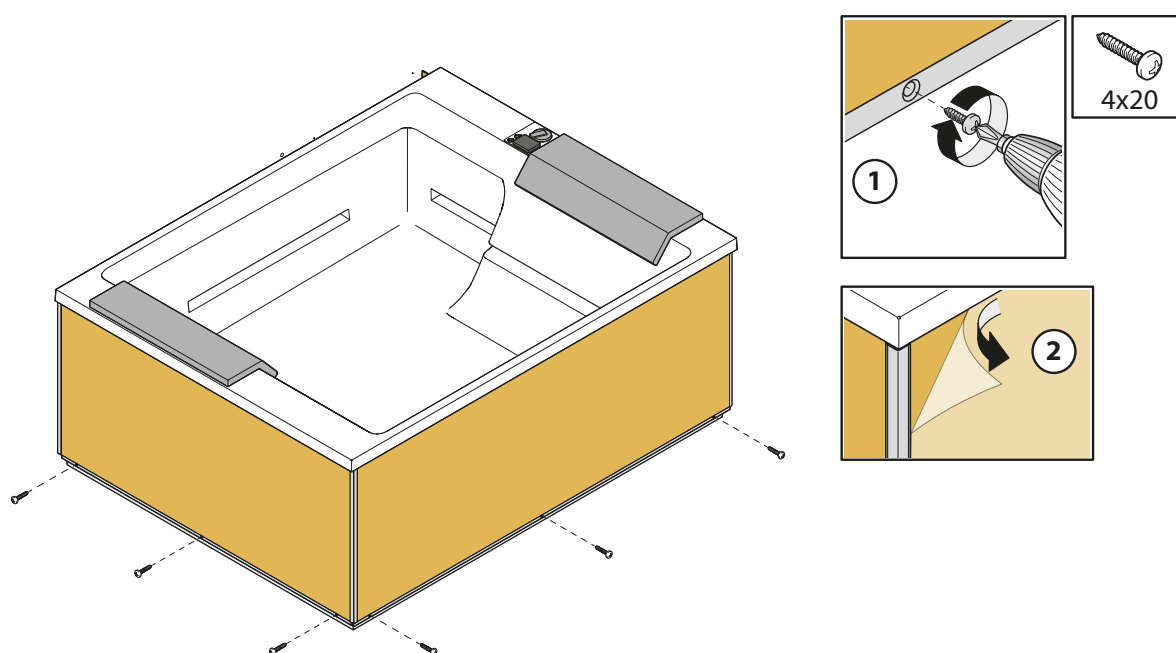
- 2** Proceed by installing panels "A" first and then panels "B".



- 3** On the corners, insert the aluminium profiles of panel B on panel A and ensure correct alignment.



- 4** Secure the panels to the base with the supplied screws. Remove the protective film from the panels.



WARRANTY CONDITIONS

Under this warranty, the manufacturer will repair or replace free of charge only the parts that have manufacturing defects. Therefore under the warranty the purchaser cannot request termination of contract, compensation of damages or the complete replacement of the product.

Once the warranty has expired, service and repairs will be provided in exchange for payment. The Authorised Technical Service Centre contacted by the customer will apply the current rates, approved by the Manufacturer.

Not covered by the warranty:

- Mirrors.
- Lights.
- Fuses.
- Masonry works which may be necessary for the removal of the defective parts.
- Components that may be defective due to negligence of use, incorrect installation or maintenance, transportation and generally due to causes not directly attributable to defects in the product's manufacture.

The Manufacturer accepts no responsibility for any damage to people, animals or property resulting from failure to follow the instructions provided in the product installation and maintenance manual.

For service where there is no evidence of product defect as well as for installation, all expenses will be borne by the customer.



IMPORTANT
NOTICE

Service under warranty will only be performed if:

- The purchaser has documents proving the actual date of purchase.
- During installation, operation and maintenance current regulations, the instructions given in the product installation and maintenance manual and the precautions recommended by the manufacturer have all been complied with.

CERTIFICATE OF WARRANTY

With this document the manufacturer guarantees the product purchased for a period of:

2 years on fibreglass parts of tubs and showers. Excluded therefore from the warranty are fittings and electrical and plumbing equipment that guarantee the operation of the product even if sold together with it.

2 years on the remaining parts sold with the product.

The warranty starts from the date of purchase. Such date will be demonstrated by the receipt or any other document proving the purchase of the goods.

Maximum care has been paid to guarantee the accuracy of this manual.

The Manufacturer reserves the right to modify the equipment or the documentation at any time, without notice.

Therefore, there might be small differences between this manual and the product you have received: we apologise in advance for any inconvenience.

The total or partial reproduction of this manual without the Manufacturer's consent is prohibited. Measurements are purely indicative and not binding.

The original language of this manual is Italian: the Manufacturer is not responsible for any mistakes in translation/interpretation.

treesse

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