

SPA
MANUAL
ASTRA

CASA BLUI

MAIN SECTIONS INDEX

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Proper preparation of the premises and systems will ensure a safe and rapid installation of the spa. For this reason we advise you to read this manual carefully and to carefully follow all the information contained herein.

⚠ 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.



**SAFETY RISKS**

- Risk of drowning. Children must never use the spa without constant adult supervision.
- Risk of entrapment and serious injury. Do not use the spa if any suction guard, suction fitting, or drain cover is missing, damaged, loose, or improperly installed.
- Risk of injury. Never replace a suction fitting with one rated below the original specified flow rate.
- Risk of electric shock. Do not allow electrical appliances or devices within 5 ft (1.5 m) of the spa.

**WARNINGS**

- Read and follow all instructions before installation, operation, or maintenance.
- Installation, electrical connection, grounding, and bonding must be carried out by qualified personnel in accordance with all applicable local and national regulations.
- Users with reduced physical, sensory, cognitive capabilities, or without adequate experience, may only use the spa under proper supervision.
- Water temperature must never exceed 104°F (40°C).
- Before entering the spa, verify the actual water temperature with an accurate thermometer, since control systems may vary.
- Lower water temperatures are recommended for young children, for prolonged use, and for users who are alone.
- Pregnant or possibly pregnant women must consult a physician before using the spa and should not use water above 100°F (38°C).
- The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness, drowning, or fatal hyperthermia.
- Persons using medication, or persons with obesity, heart disease, high or low blood pressure, circulatory disorders, diabetes, clotting disorders, or similar medical conditions, must consult a physician before using the spa.
- Persons with infectious, skin, or contagious diseases must not use the spa.
- Do not use the spa immediately after strenuous exercise.
- Risk of electric shock. The spa must be properly grounded and bonded, including all required nearby metal components, in accordance with applicable electrical codes.
- Risk of electric shock. Disconnect power immediately if an electrical fault is detected, and do not restore power until the fault has been identified and corrected.
- Risk of serious injury or death. Do not dive into the spa.
- Risk of serious injury or death. Spa steps can be slippery when wet.
- Exercise caution when entering or leaving the spa.
- Do not place your head under water.
- Do not ingest spa water.
- Prolonged immersion in hot water can be hazardous to health.
- Hyperthermia may occur when the body temperature rises above normal. Its effects may include dizziness, drowsiness, lethargy, fainting, impaired judgment, inability to recognize heat, inability to leave the spa, fetal damage during pregnancy, and risk of drowning.
- If the product is equipped with a GFCI, it must be tested before each use according to the manufacturer's instructions.
- Unauthorized modifications, tampering, misuse, or maintenance not performed as instructed may cause injury, death, equipment damage, and void the warranty.
- During installation and maintenance, keep unauthorized persons away from the work area.
- Before performing any maintenance, disconnect the electrical and water supply.
- Cleaning and disinfecting chemicals must be kept tightly closed, properly labeled, and stored out of reach of children and pets.

**CAUTION: MAINTENANCE SUBSTANCES**

- Maintain water chemistry in accordance with the manufacturer's instructions.
- Perform regular maintenance to ensure safe, hygienic, and reliable spa operation.
- Use appropriate personal protective equipment during installation, maintenance, and chemical handling.
- Use only products and chemicals specified or approved by the manufacturer.
- Clean the filter regularly and, where applicable, drain, clean, and dry associated components whenever the spa is emptied.
- Do not place objects inside the spa during installation or maintenance, as they may fall into the system or damage components.
- When not in use, keep the spa covered if a cover is provided.
- The cover is not load-bearing. Do not walk, sit, jump, or place objects on it.
- Store chemicals in a cool, dry place away from heat sources.
- Dispose of packaging materials in accordance with local regulations and keep them away from children and animals.

NOTICE

- **Use only products and chemicals specified or approved by the manufacturer**
- **Contact the manufacturer if any instruction is unclear.**
- **Keep this manual for future consultation.**

**WARRANTY**

The manufacturer *cannot be held responsible and voids warranty* in the case of:

- Installations or connections that are not compliant or that are carried out without following the national regulations concerning civil and industrial installations.
- Pre-installation and installation carried out by unqualified personnel or otherwise not in compliance with the instructions in the pre-installation and installation requirements of the product;
- Incorrect preparation of the installation environment, including load-bearing surfaces;
- Accidents and damage due to a non-compliant installation or use of the bathtub;
- Masonry works that prevent the removal and handling of the spa or defective parts thereof.
- Product installations for which an according compliance checklist has not been submitted by the installer.
- The installer, acting on behalf of the seller or user, does not conduct an appropriate inspection of the Product's condition before installation. The warranty will not be valid if the Product is installed without this inspection.
- The installer, acting on behalf of the seller or user, does not ensure a correct spa (and all of its components) operation once installed, in order to confirm proper installation and water-hardness. The warranty will not be valid if this verification is not carried out.
- the Product being inspected, repaired, maintained, or handled by an unauthorized person without the manufacturer's knowledge & previous approval.
- All damage to the product resulting of unusual or extraordinary wheather conditions or climatic events are not covered by warranty.

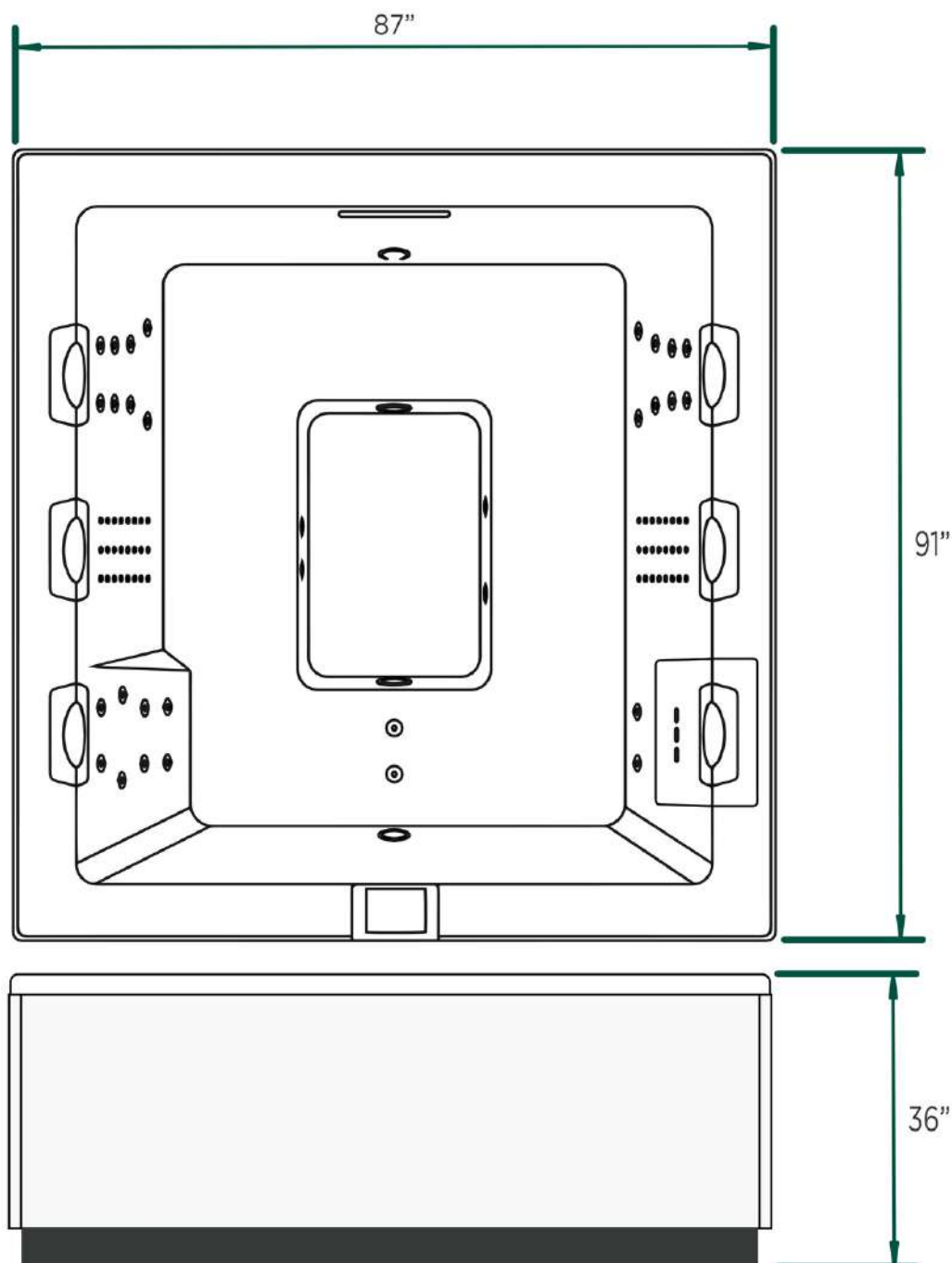
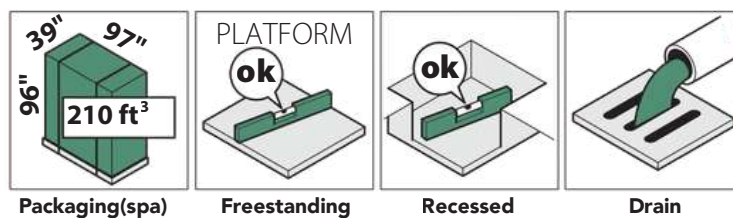
PRE-INSTALLATION

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1

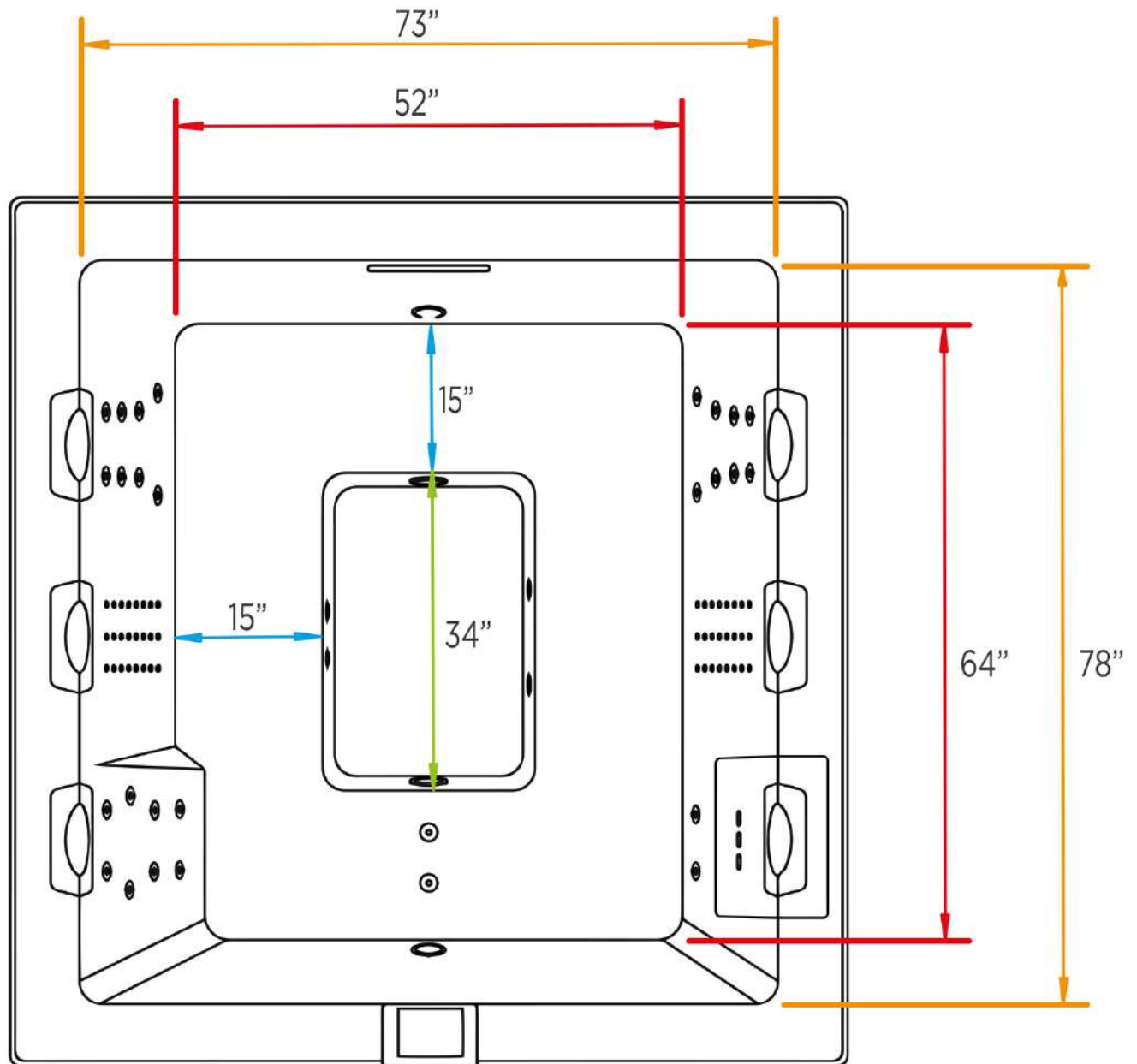
MEASUREMENTS AND TECHNICAL SPECIFICATIONS

TECHNICAL DRAWINGS



The manufacturer reserves the right to make improvements to the equipment at any time, without prior notice.
Partial reproduction without the manufacturer's consent is prohibited.
Measurements are purely indicative and not binding.

GENERAL INTERNAL DIMENSIONS



The manufacturer reserves the right to make improvements to the equipment at any time, without prior notice.
Partial reproduction without the manufacturer's consent is prohibited.
Measurements are purely indicative and not binding.

TECHNICAL SPECIFICATIONS

CAPACITY:	
TOTAL SEATS:	6 seats
TOTAL JETS:	28 jets + 48 microjets
DIMENSIONS:	87" x 91" x 33"
WATER CAPACITY:	1440 L
DRY WEIGHT:	620 lb
FILLED WEIGHT:	3800 lb
HEATING POWER:	5.5 kW (11kW optional)
ELECTRICAL:	240V - 50A (70A w/11kW heater)
FILTER TYPE:	Cartridge
PUMPS:	3HP + 2HP
CIRC PUMP:	0.5 HP
DISPLAY:	Spa touch 4 + WiFi

IMPORTANCE & INSTALLER PROFILE

The spa works efficiently and safely if it is installed correctly and in compliance with the regulations in force in the country of use.

This pre-installation guide provides information for a proper preparation of the environment, plumbing and electrical connections. This allows for a quick and safe installation.

The pre-installation stages involve the following professionals:

- A civil engineer for the calculation of the loading capacity of the platforms or floors;
- A qualified and certified company that will prepare the installation site according to the instructions provided in this guide, following current work safety regulations;
- Certified and qualified electrician who prepares electrical systems in compliance with local and national regulations regarding civil and industrial systems;

The user must promptly notify the professionals of any existing underground obstacles like gas, water, electrical or telephone lines.

Upon completion of pre-installation all specialists must issue a **procedure compliance checklist** of the systems installed. Without such document, the Manufacturer declines any responsibility for damage to the systems or premises where the spa is or will be installed.



We recommend checking with the appropriate state entities to see if there are constraints that prevent installation or if any form of permit is required.

An incorrect pre-installation could cause structural damage to the spa & its surroundings, resulting in warranty voidance.

TEMPORARY POSITIONING

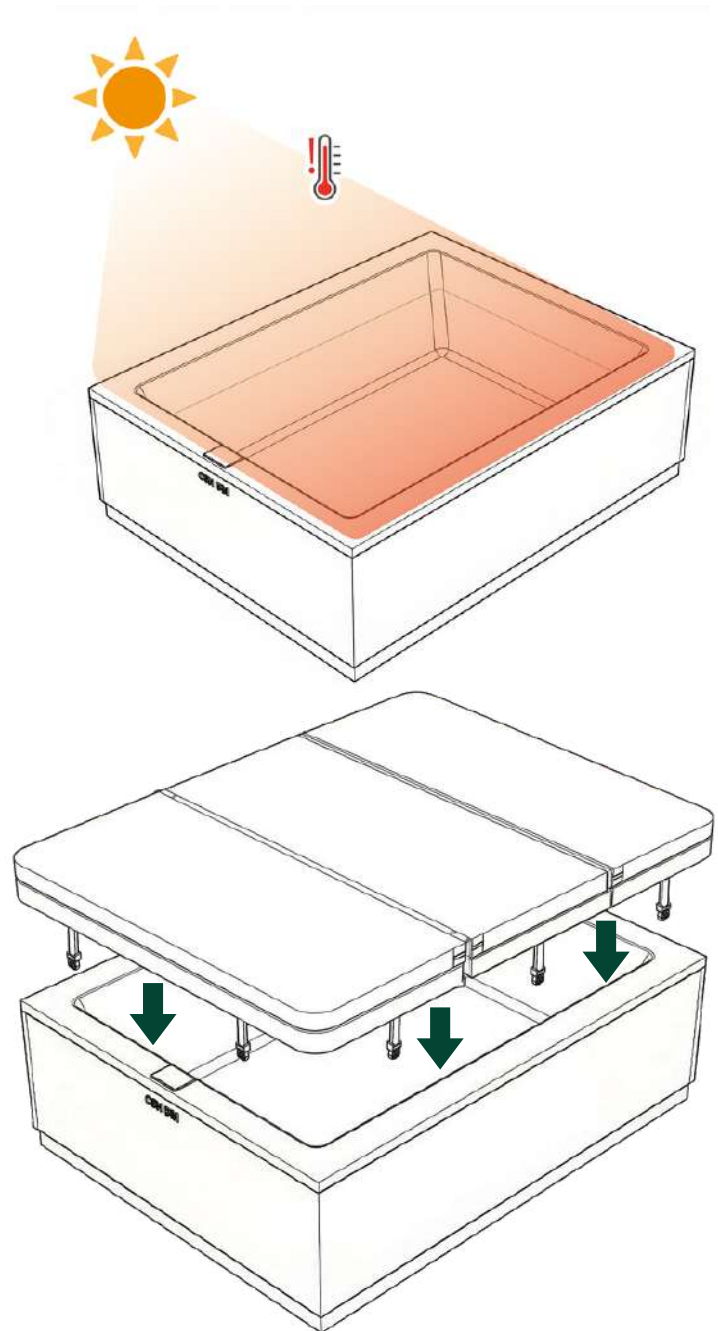
The installation of the spa should be done immediately upon receipt. In any case, once unpacked, if it is necessary to temporarily place it on a surface awaiting the installation, it will be necessary to place level concrete slabs having a minimum thickness of 2 inches under the entire bottom of the spa.

Since the temporary base may shift, it is recommended to leave the spa in that position for the shortest possible time.

Do not leave the empty spa in DIRECT SUNLIGHT.

The surface temperature could rise above 176°F 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.



2

IDENTIFICATION OF THE INSTALLATION SITE



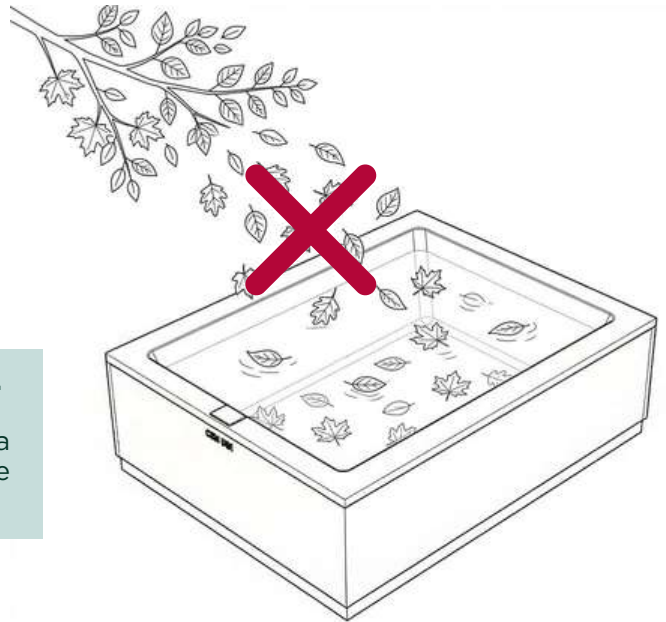
When choosing the position, take into account local regulations that prohibit any electrical installation (plug sockets, switches, lamps, etc.) in the area surrounding the spa for a distance of at least 23.6 inches and a height of 90.5 inches.



When choosing a location, bear in mind that the inspection side (front) must always remain accessible for future maintenance.

At least **20"** of clearance are needed **around the spa**.

The recommended **ambient temperature** for the spa must be **between 23°F and 113°F**, with a relative humidity of **20-80%**.



OUTDOOR INSTALLATION



Take into account the proximity of trees or hedges, and note that debris (e.g., leaves) can cause damage to the equipment over time that is not covered by warranty and make maintenance more expensive and frequent.

Also assess the best position to safeguard privacy and respect for others, as well as the best view or climatic position consistent with local regulations.



Consider the geological composition of the soil on which the supporting platform will be built.

Soils that are very sandy, permeable or subject to flooding could compromise the durability of the spa's support platform.

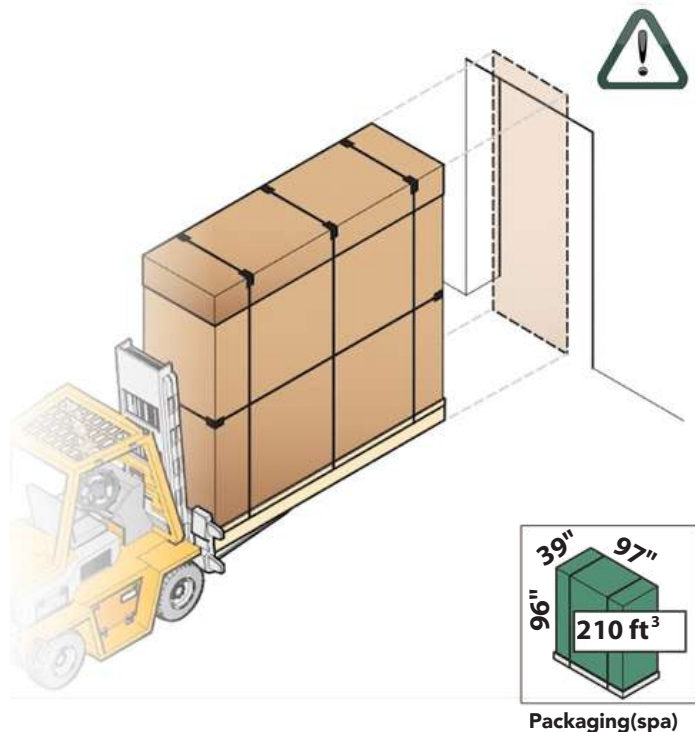
INDOOR INSTALLATION

Note that the evaporation of water in the spa in the presence of high internal temperatures can generate very high levels of humidity in the environment.

To overcome this drawback, choose an environment with good natural or forced ventilation. Humidity damage is not covered by the manufacturer warranty.



Take into account the size of the spa: narrow passages, doors and steps can be an obstacle to its transport to the desired place.



Packaging(spa)

3

PREPARATION OF THE INSTALLATION SITE



Before preparing the supporting surface, see the sections on the electrical connections for positioning the connections correctly.

**Necessary installation features**

- A drainage grating around the perimeter to help preserve the equipment and the structure (even for indoor installations).
- A non-slip flooring around the spa.

FREESTANDING INSTALLATIONS

As a base, build a platform or flooring in reinforced concrete, at least 4 inches thick, perfectly flat and suitable for supporting the weight of the spa and the people using it.

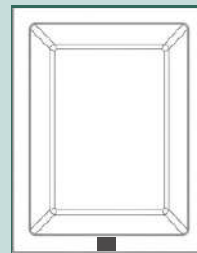
The manufacturer suggests a minimum load of 100 lb/ft². In any case contact a qualified construction engineer to calculate the appropriate load for the installation site.



Wedges or shims cannot be placed under the spa to level it. Remember to ground the structural reinforcement in accordance with electrical codes.

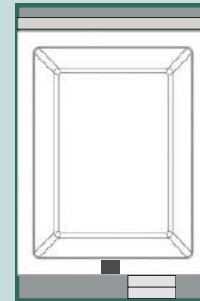
POSSIBLE CONCRETE PAD CONFIGURATIONS

1) Same as spa size



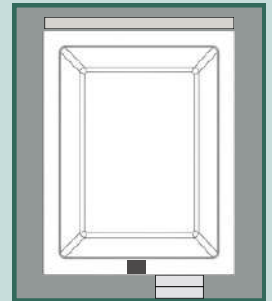
Clean & seamless

2) +20" front & back

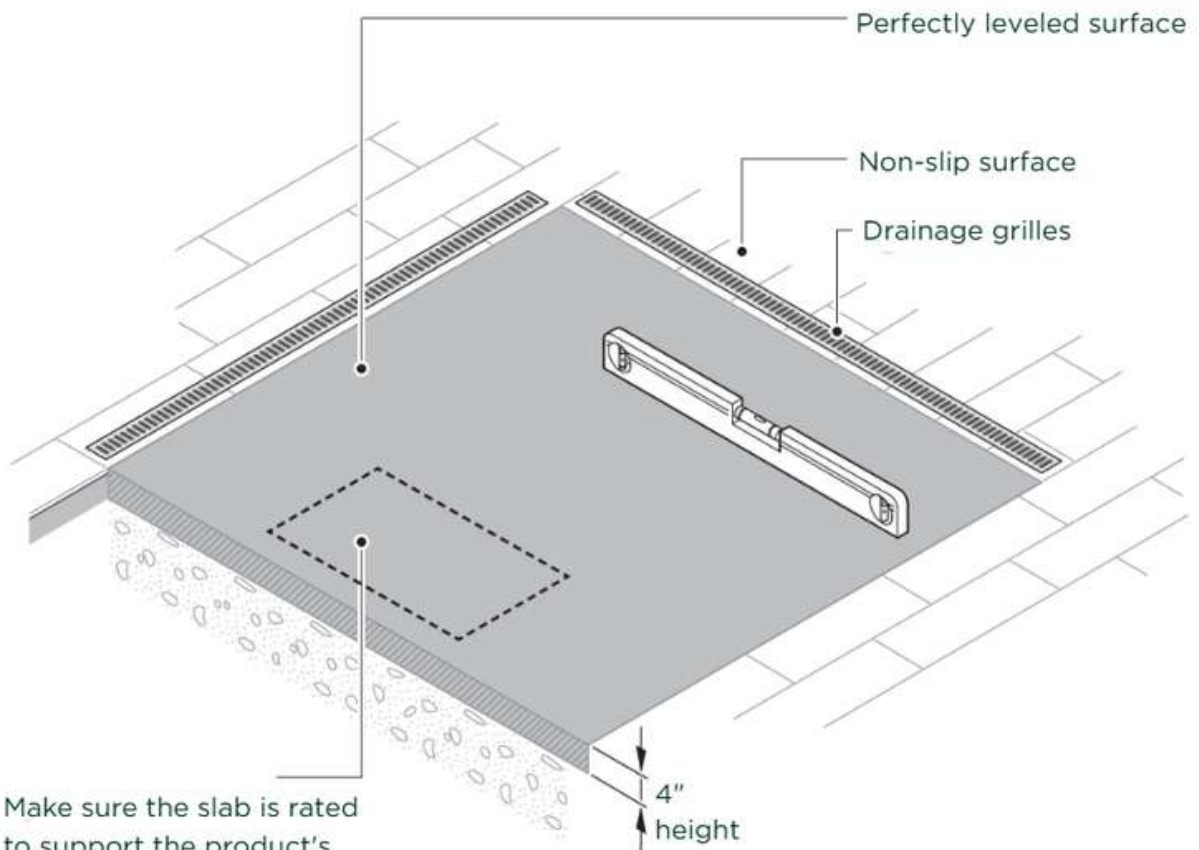


Sturdy support for accessories

2) +20" all sides



Symmetry & versatility



Make sure the slab is rated to support the product's **FILLED WEIGHT**.

BUILT-IN INSTALLATIONS

As a base, build a platform or flooring in reinforced concrete, at least 4 inches thick, perfectly flat and suitable for supporting the weight of the spa and the people using it.

The manufacturer suggests a minimum load of 100 lb/ft². In any case contact a qualified construction engineer to calculate the appropriate load for the installation site.



Wedges or shims cannot be placed under the spa to level it. Remember to ground the structural reinforcement in accordance with electrical codes.

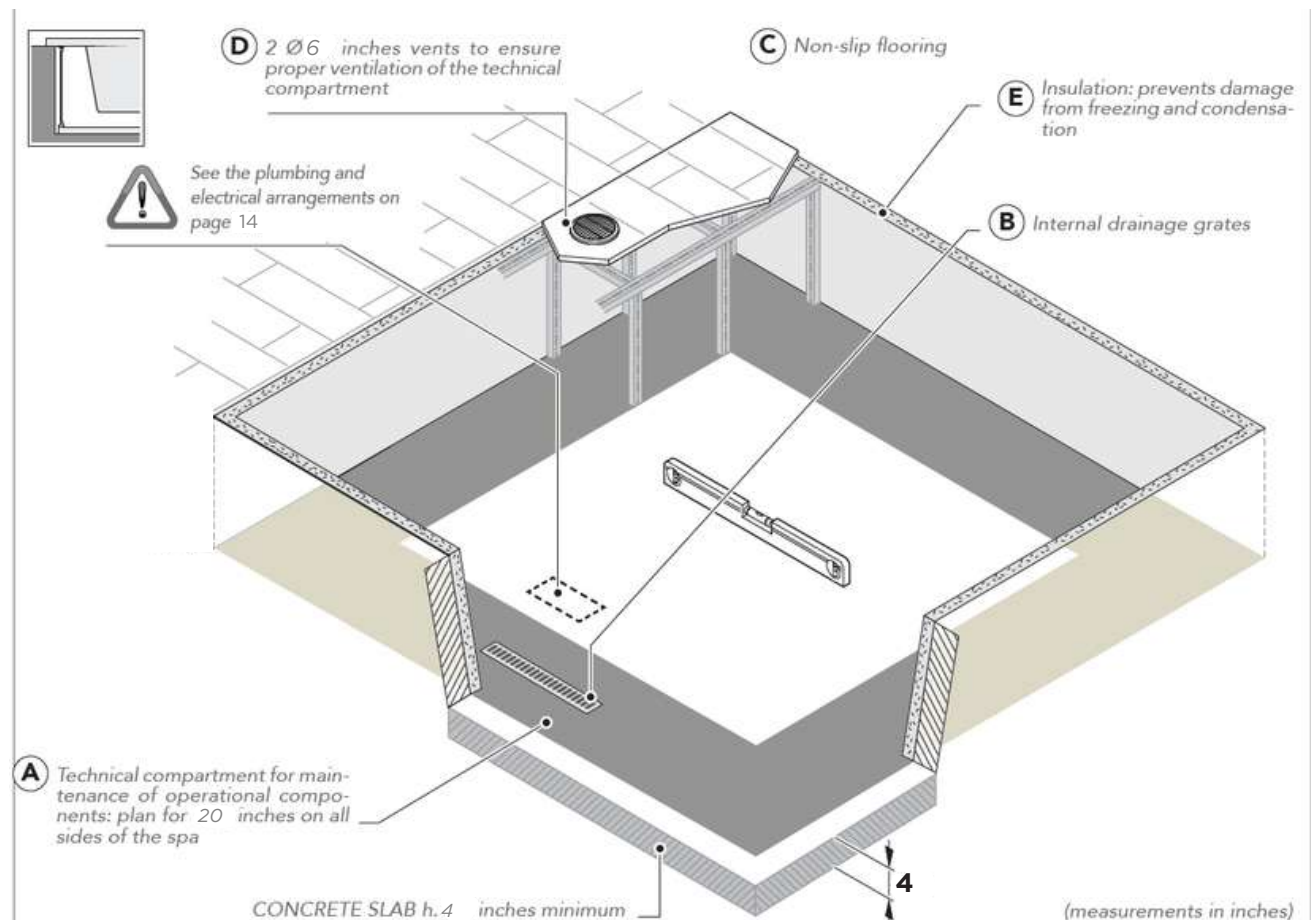


Necessary installation features:

- **A** - A technical inspection port* at least 20" inches wide on all sides of the spa. This will make future maintenance or repairs easier.
- **B** - Drainage grating around the perimeter and in the recess to help preserve the equipment and the structure (even for indoor installations).
- **C** - A non-slip flooring around the spa.
- **D** - Two Ø6" vents **are advised** to ensure proper ventilation and extraction of the heat and moisture from the technical compartment. In case of self ventilating or non-airtight decks, this feature is not necessary.

To avoid damage due to freezing we recommend insulating the spa recess. This procedure prevents excessive condensation that over time cause odours and damage to all major internal components.

The choice of materials and thickness should be based on the minimum temperatures reached in the country of installation.



4

WATER SUPPLY

For optimal spa performance and low-maintenance water, keep pH, alkalinity, and hardness within the recommended ranges. Test these parameters regularly and adjust as needed to maintain proper balance.

- **pH:** Maintain between 7.4 and 7.6 for disinfectants to work effectively.
- **Alkalinity:** Keep between 80 - 125 ppm to stabilize pH and protect equipment.
- **Hardness:** Keep between 100 - 200 ppm.

Balanced water ensures it remains clear, clean, and easy to manage over time.

Water Source: Tap vs. Well

Maintaining clean, high-quality water is essential for both spa hygiene and long-term durability.

- Tap water is generally safe, as it is microbiologically treated and free from most metals, organic matter, and other impurities that could harm the spa.
- Well water, on the other hand, can contain oxides, dissolved metals, organic debris, and bacteria. These can encourage algae growth and lead to staining, scaling, or other damage to the spa's surfaces and components.

For best results, use treated tap water or properly filtered and disinfected well water before filling your spa.

Water Hardness

It reflects the total dissolved calcium in the water. It influences how corrosive or scale-forming the spa water is.

Very low hardness ("soft" water) is not recommended because it's aggressive to equipment and can stain the shell.

Very high hardness ("hard" water) promotes scale on surfaces and components.

If hardness is too high:

- Lower it by dilution—use a mix of roughly 75% hard water + 25% soft water as a starting point.
- If soft water isn't available, dose a stain/scale control product as directed on its label.

If hardness is too low:

- Avoid filling with soft water; raise hardness by topping up with a higher-calcium (harder) source.
- Once hardness is in range, it generally stays stable unless you add water that's much harder or softer.

Water Alkalinity

Alkalinity refers to the concentration of alkaline compounds (such as carbonates, bicarbonates, and hydrates) dissolved in the water.

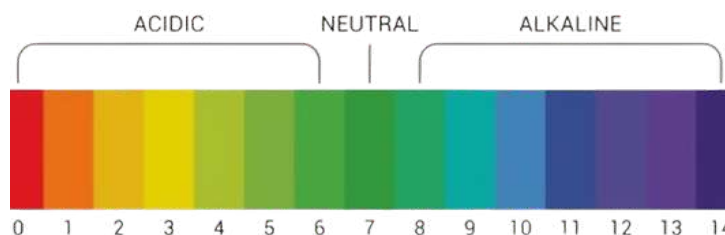
When alkalinity drops below 80 mg/l or rises above 125 mg/l, pH can become unstable, making it harder to maintain proper water balance.

If below 80 mg/L, add an alkalinity increaser ; if above 125 mg/L, lower with small doses of pH decreaser or partially dilute with fresh water. Run the pumps to circulate, then retest. Be sure the products are compatible with hot tubs.

Water pH

It measures the level of hydrogen ions (H^+) in the water, indicating its acidity or alkalinity. The recommended range is between 7.4 and 7.6 (neutral is 7). Maintaining this range helps:

- Protect bathers' comfort — the skin, eyes, and mucous membranes are close to this natural pH level.
- Extend the lifespan of the spa's surfaces and components.
- Ensure sanitizing chemicals work effectively, reducing overall product use.



If below 7.4, add a **pH increaser** (Sodium Hydrogen Carbonate); if above 7.6, add a **pH decreaser** (Sodium Bisulfate). Run the pumps to circulate, then retest. Be sure the products are compatible with hot tubs.

Steps	Parameter	Ideal Range (ppm) – Minimum	Ideal Range (ppm) – Maximum	What Chemicals to Use — To Raise	What Chemicals to Use — To Lower
1	Total Alkalinity	80	125	Sodium Hydrogen Carbonate, or Sodium Bicarbonate	Sodium Bisulfate
2	Calcium Hardness	100	200	Calcium Hardness Increaser	Use a mixture of 75% hard water and 25% soft water or use a Stain and Scale Inhibitor
3	pH	7.4	7.6	Sodium Hydrogen Carbonate	Sodium Bisulfate

5 ELECTRICAL PREPARATIONS

The Casa Blui spas are built in compliance with UL laws and are tested during production to ensure the safety of the installer and user. The connection must be made by an experienced, qualified electrician.

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.

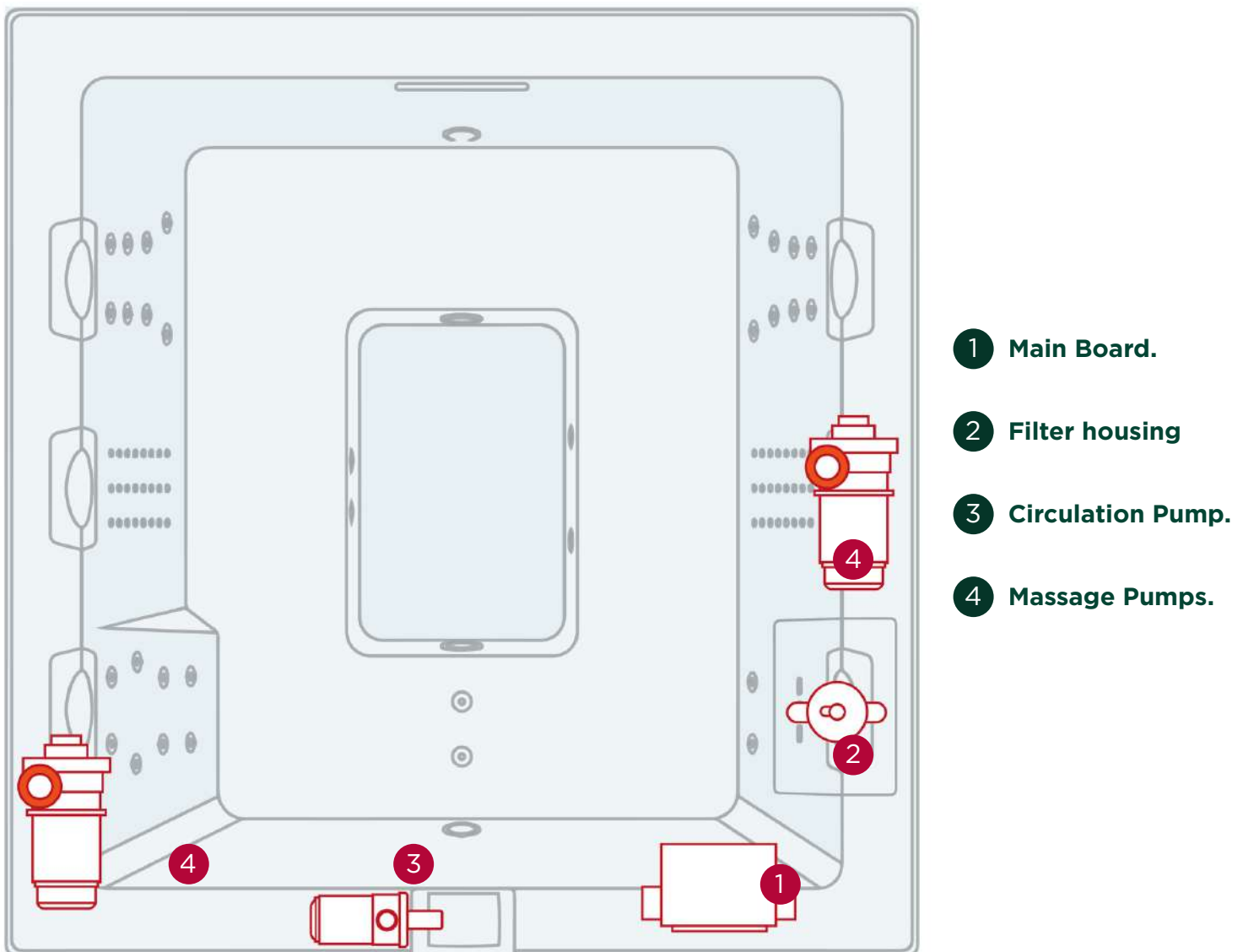
c) To be used, the spa requires a dedicated 240V, single-phase electrical connection protected by a 50A BREAKER. In the case your spa has an 11Kw heater, the breaker and wiring *MUST* be rated for 70A.

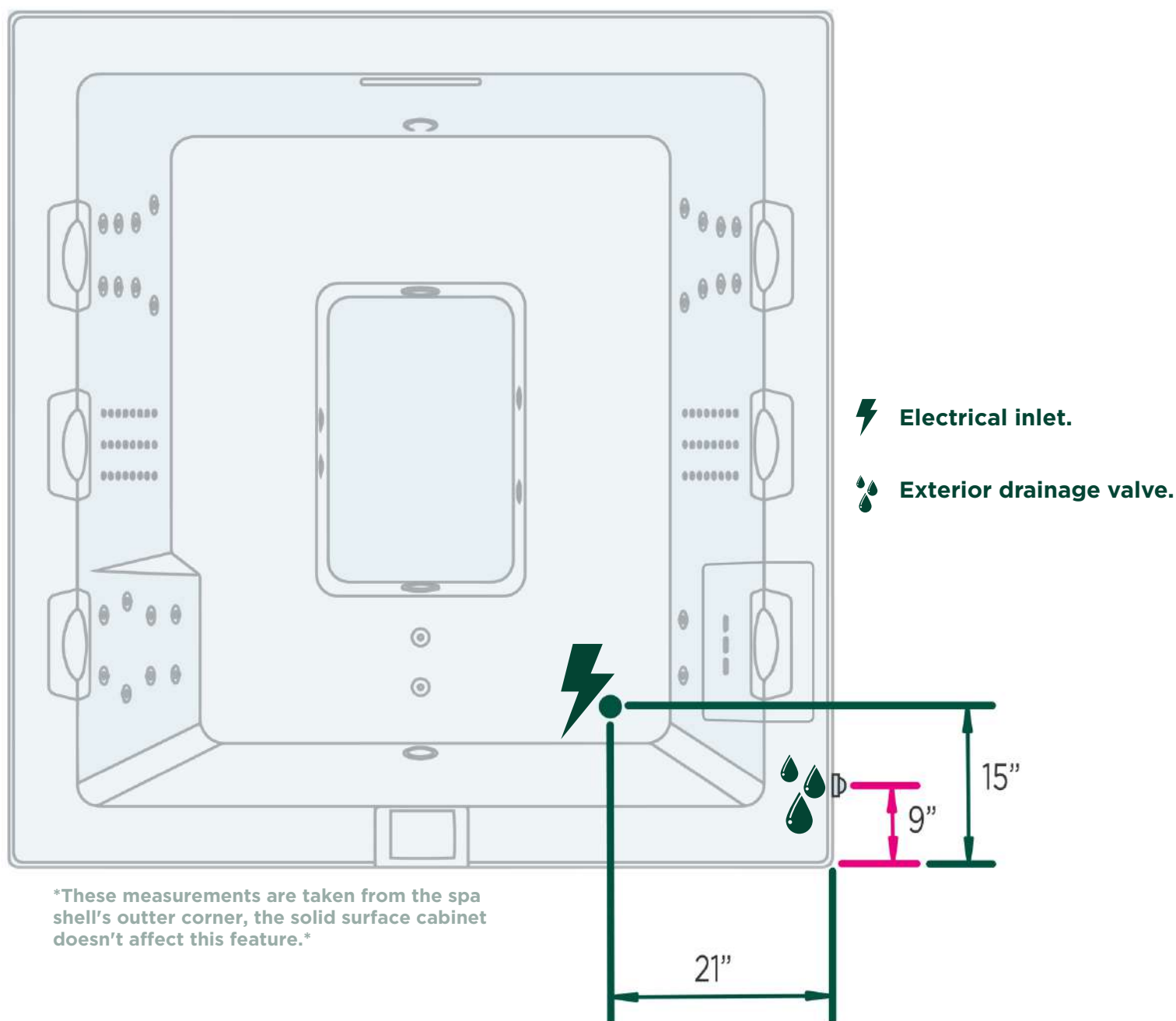
d)At least two lugs marked “BONDING LUGS” are provided on the external surface or on the inside of the supply terminal box or compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub or spa to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.

e) 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.

f) SAVE THESE INSTRUCTIONS.

Electrical inlet & Drainage location + Main componentry diagram.





The Manufacturer is not responsible for connections made in a way that does not comply with local codes, the specifications in this manual or tampering with any electrical component of the spa.



WARNING - This product is provided with a ground-fault circuit-interrupter. 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.



Local regulations prohibit any electrical installation (plug sockets, switches, lamps, etc.) in the area surrounding the spa for a distance of at least 23.6 inches and a height of 90.5 inches.

INSTALLATION

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1

PRELIMINARY OPERATIONS

Before installing the spa, check that everything has been prepared.

Check that:

- A platform or a recess (in the case of recessed installations) of reinforced concrete, with a minimum thickness of 3.9-4 inches, has been placed, perfectly flat, leveled and suitable for supporting the weight of the spa and the people within.
- Ø6 inches vents have been installed to ensure proper ventilation of the technical compartment (in case of recessed spas).
- Drainage grating around the perimeter has been installed to help preserve the equipment and the structure (even for indoor installations);
- Non-slip flooring has been installed in the area around the spa
- For a recessed installation, a technical inspection port measuring at least 20 inches wide has been prepared on all sides of the spa;
- The connections to the electrical grid have been made in compliance with current regulations in force in the country/state of installation;
- A water softener has been installed for the water used to fill the spa if the water has a high degree of hardness;
- For outdoor recessed versions, the walls have been insulated to protect against the cold.

2

CHECKING SPA INTEGRITY

After having removed the spa from the packing, check its integrity.



Check:

- That there is no visible structural damage;
- That there are no cracks in the surface of the spa or in the outer covering (cracks due to incorrect transport or support are not covered by the warranty);
- The correct position of the sleeves and pipes;
- That all straps are correctly tightened.

If you notice any anomalies, do not proceed with the installation but rather promptly contact the Manufacturer.

More information

OUTDOOR INSTALLATION

Preparations

To run the electric cables from the main electrical panel to the spa underground ducts must be used and adequately protected against freezing by using proper insulation. It is also recommended to add drainage points in them to prevent standing water.

Choice of position: take into account the proximity of trees or hedges, and note that debris (e.g., leaves) can cause damage to the equipment over time that is not covered by warranty and make maintenance more expensive and frequent. It is also recommended to always install flooring around the spa, possibly anti-slip.

INDOOR INSTALLATION

Preparations

In the area used to access the spa it is recommended to install anti-slip flooring. The evaporation of water in the spa in the presence of high internal temperatures can generate very high levels of humidity in the environment. To avoid this problem, provide good natural or forced ventilation in the installation environment and, if necessary, a dehumidification system. Damage caused by this phenomenon is not covered by the manufacturer warranty.

Choice of position: Always take into account the size of the spa: narrow passages, doors and steps can be an obstacle to its transport to the desired place.

3

TRANSPORT AND POSITION**TRANSPORT**

To move the spa to the place of installation a suitable lifting device (e.g., pallet jack) is required. If the installation is indoor, before moving the spa make sure that it can easily pass through the doors and hallways to reach the desired place of installation.



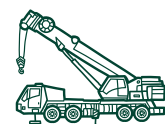
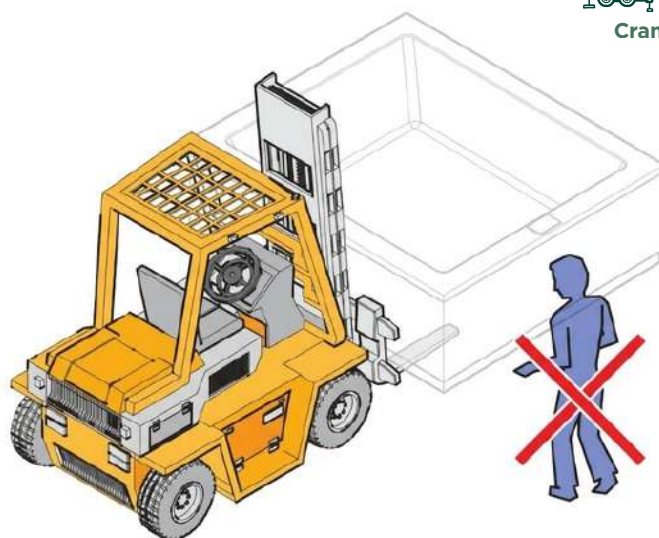
Movement must be carried out using personal protective equipment (e.g., gloves, safety shoes, etc.) and taking all the necessary safety precautions for those involved and to not damage the spa.



During transport, lift the spa by holding it exclusively by the edge and NEVER by holding the plumbing lines or operational parts (e.g., pumps, etc.).



During movement, the surrounding area must be kept free of persons not involved in the operation, animals or objects (e.g., packaging, etc.) that could get in the way.

**APPROVED
MOVING EQUIPMENT****Dolly** ✓**Forklift** ✓**Crane** ✓**POSITIONING****TEMPORARY POSITIONING**

Before installing and assembling the spa, ensure that the packaging is in perfect condition and contact us immediately if the packaging is damaged. If it is necessary to place the spa temporarily before installation, position it horizontally on a smooth, flat and level surface, and do not leave it empty and uncovered in direct sunlight.

POSITIONING IN THE PLANNED LOCATION

In case of outdoor or indoor installation, position the Spa horizontally, placing the whole base of the unit on a smooth, flat and level surface capable of supporting the full operating weight, and ensure proper drainage and ventilation where applicable.

For an in-ground installation, the Spa structure must be fixed on the floor, with a trapdoor access for maintenance, no concrete covering, and 20" clearance around the spa. After positioning the Spa and filling it to the correct water level, connect the electrical equipment and proceed to commissioning only after confirming proper flow.

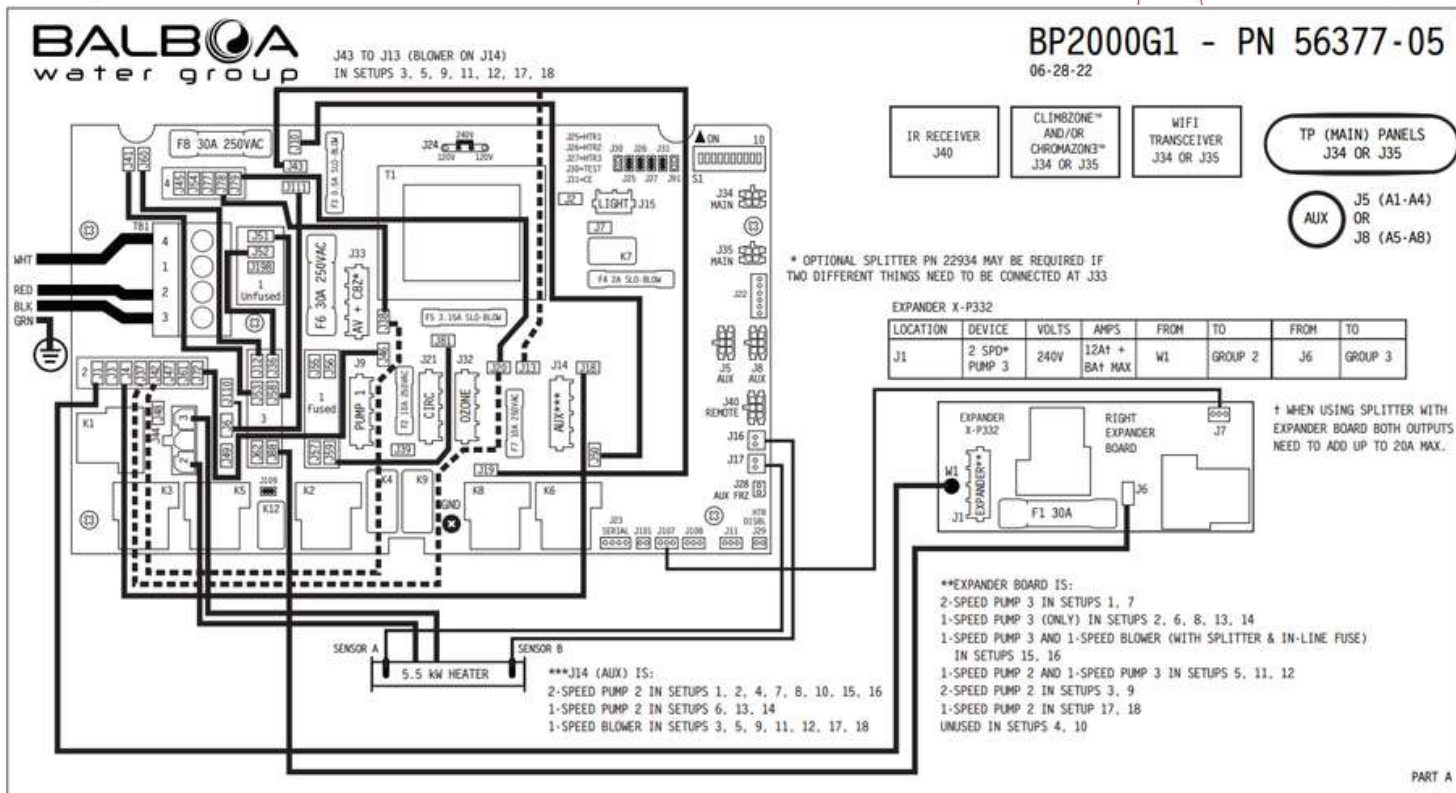
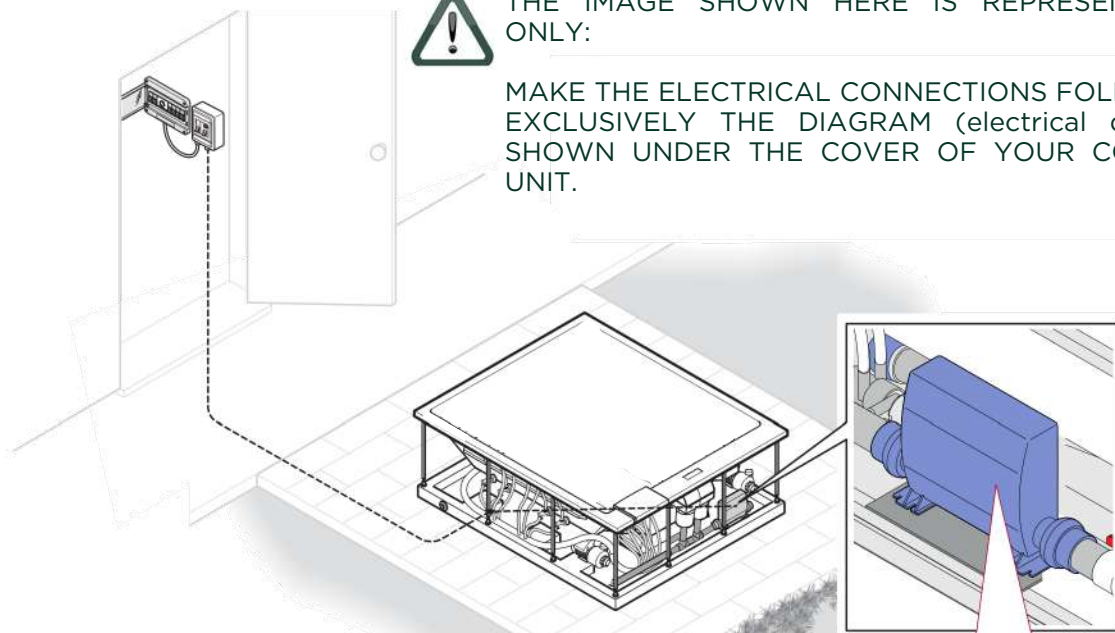
Do not expose the Spa to sunlight when it is empty and without a protection cover.

4 MAIN BOARD SETUP



THE IMAGE SHOWN HERE IS REPRESENTATIVE ONLY:

MAKE THE ELECTRICAL CONNECTIONS FOLLOWING EXCLUSIVELY THE DIAGRAM (electrical diagram) SHOWN UNDER THE COVER OF YOUR CONTROL UNIT.



PART A

LOCATION	DEVICE	VOLTS	MAX AMPS	FROM	TO
J9	2-SP PUMP 1	240V	12A MAX	J46	GROUP 2
J14	1-SP PUMP 2	240V	12A MAX	J18	GROUP 2
	J14 LINE 1 CONNECTION			J43 J10	J19 J50
J15	SPA LIGHT	10V	2A*		
J21 J32	CIRC PUMP OZONE	120V**	2A MAX 1A	J20	GROUP 4
	CIRC AND OZONE LINE 1 CONNECTION			J81	J59
J33	AV ONLY	120V***	3A	J38	GROUP 4
J33	AV + CLIM8ZONE™ (C8Z)	240V***	2A + 8A	J38	GROUP 2
J44	HEATER	240V	5.5 kW		

* 2A LIMIT IS SHARED BY J15 SPA LIGHT AND CHROMAZONE™

** FOR 240V CIRC PUMP AND OZONE, CONNECT J20 TO GROUP 2

*** AV MUST BE REWIRED FROM 120V TO 240V WHEN USING CLIM8ZONE™ (C8Z) BY MOVING THE J38 WIRE FROM GROUP 4 TO GROUP 2.

SETUP #	CIRC PUMP	PUMP 1	PUMP 2	PUMP 3	BLOWER	TEMP SCALE
1	NONE	2-SPEED	2-SPEED	2-SPEED	NONE	°F
2	NONE	2-SPEED	2-SPEED	1-SPEED	NONE	°F
3	NONE	2-SPEED	2-SPEED	NONE	1-SPEED	°F
4	NONE	2-SPEED	2-SPEED	NONE	NONE	°F
5‡	NONE	2-SPEED	1-SPEED	1-SPEED	1-SPEED	°F
6	NONE	2-SPEED	1-SPEED	1-SPEED	NONE	°F
7	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	NONE	°F
8	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	1-SPEED	NONE	°F
9	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	NONE	1-SPEED	°F
10	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	NONE	NONE	°F
11‡	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	1-SPEED	1-SPEED	1-SPEED	°F
12‡	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	1-SPEED	1-SPEED	1-SPEED	°F
13	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	1-SPEED	1-SPEED	NONE	°F
14	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	1-SPEED	1-SPEED	NONE	°F
15‡	NONE	2-SPEED	2-SPEED	1-SPEED	1-SPEED	°F
16‡	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	1-SPEED	1-SPEED	°F
17	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	1-SPEED	NONE	1-SPEED	°F
18	NONE	2-SPEED	1-SPEED	NONE	1-SPEED	°F

SWITCHBANK S1 OFF

SWITCHBANK S1 ON

TEST MODE OFF	◀ A1	TEST MODE ON
DON'T ADD 1 HS PUMP W/HTR	A2 ▶	ADD 1 HS PUMP WITH HEAT
DON'T ADD 2 HS PUMPS W/HTR	◀ A3	ADD 2 HS PUMPS WITH HEAT
DON'T ADD 4 HS PUMPS W/HTR	◀ A4	ADD 4 HS PUMPS WITH HEAT
SPECIAL AMPERAGE RULE A	◀ A5	SPECIAL AMPERAGE RULE B
STORE SETTINGS**	◀ A6	MEMORY RESET**
1 MIN HTR COOLDOWN (ELEC)	◀ A7	5 MIN HTR COOLDOWN (GAS)
NOT ASSIGNED	◀ A8	NOT ASSIGNED
NOT ASSIGNED	◀ A9	NOT ASSIGNED
NOT ASSIGNED	◀ A10	NOT ASSIGNED

** SWITCH # 6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION.



Before installation, please ensure that the preinstallation checklist is complete and signed by a qualified technician, and have the general maintenance manual available after installation

The installation must be carried out with the preinstallation checklist complete and signed by a qualified technician. All electrical work must be performed by a licensed/qualified electrician and comply with all applicable national and local electrical codes and inspection authority requirements. If there is any doubt about soil bearing capacity or floor load ratings, a qualified geotechnical or structural engineer must be engaged

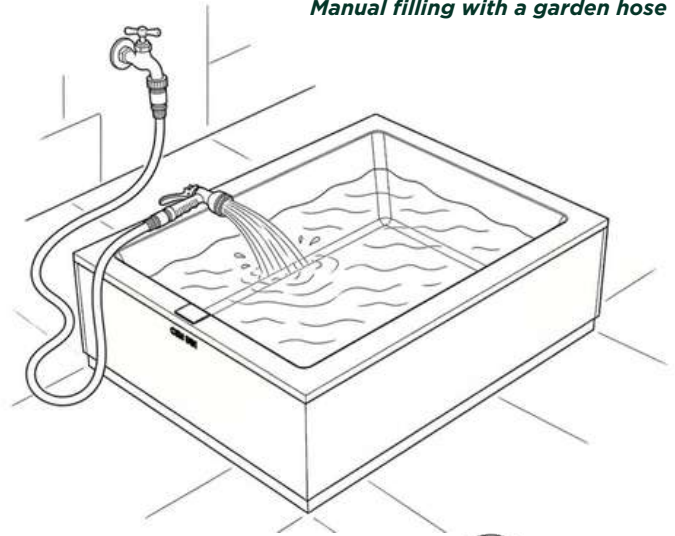
5 FILLING THE SPA & COVER

Perform a preliminary cleaning of the spa using a soft cloth or non-scratch sponge with a little soap and water. If using a commercial cleaner, make sure it is specifically recommended for acrylic surfaces and always spot-test it in an inconspicuous area first. Never use abrasive powders, scouring pads, polishing creams, or solvents such as acetone, gasoline, paint thinners, varnishes, or similar chemicals, as they may scratch or irreparably damage the spa surface.

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 spa's durability.

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

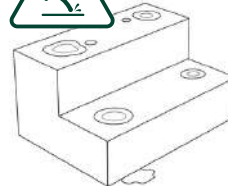
Manual filling with a garden hose



Do not leave the Spa uncovered, empty, and exposed to direct sunlight.

Prolonged UV and heat can cause warping, discoloration, and surface damage to the Spa and its accessories, and damage caused by direct exposure to sunlight is not covered by the warranty. If the Spa must be drained, keep it shaded and covered, and refill it promptly. A UV-resistant protection cover is recommended to help protect the shell and equipment from sun damage and falling debris. A fitted thermal cover also helps retain warmth efficiently.

The cover is especially useful if the Spa is installed outdoors. In exposed areas, consider positioning the Spa near walls or privacy screens to reduce heat loss. Casa Blui cover options also include lockable tie-down straps designed for long outdoor service.



The spa steps **ARE NOT** rated as "Anti-slip", they are made of solid surface material & **can be slippery** when wet. Commercially available *Non-slip & waterproof* adhesives can be applied **for extra grip**.

The spa cover **IS NOT** guaranteed to withstand **sustained unusually strong winds**. Any weather-related damage is **not covered by warranty**.

FILTER REPLACEMENT & CLEANING

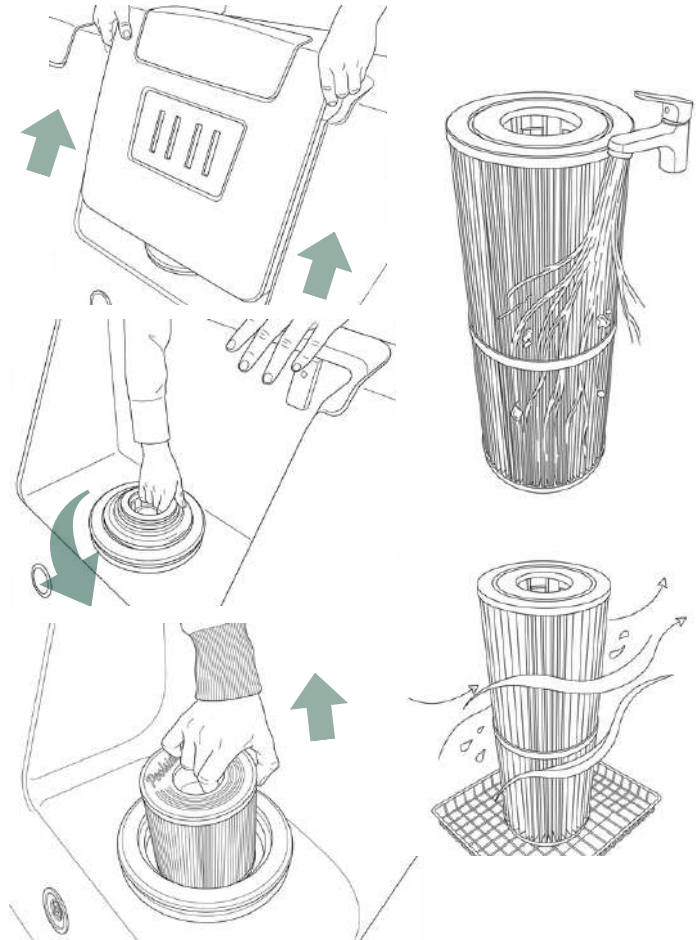


Before cleaning the filter cartridge and, in any case, before any electrical or mechanical work, switch OFF power at the breaker and secure the system against restart (lock-out/tag-out where applicable).

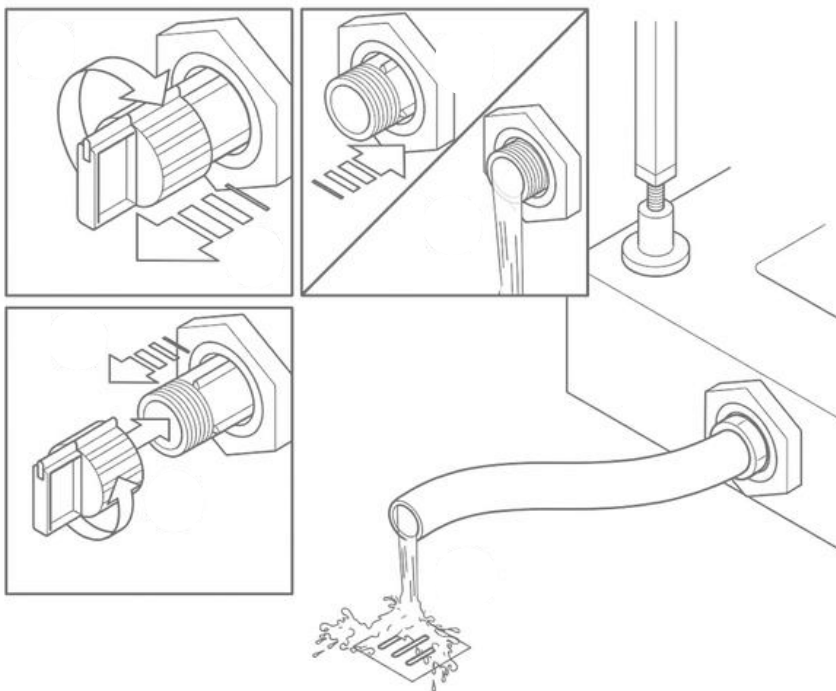
Cleaning/replacing the filter cartridge depends on how often the spa is used. In general, rinse the cartridge with a gentle garden-hose stream every 1-2 weeks with heavy use or about monthly with lighter use to remove hair, lint, and fine debris. Be sure to clean well between the pleats so water reaches the inner folds of the filter. To remove embedded oils, soap film, and minerals, perform a chemical soak about once a month for heavy use or every 2-3 months for lighter use, and also at each drain/refill. In all cases, use a spa-specific filter cleaner according to the product label, rinse thoroughly, let the cartridge air-dry completely before reinstalling, and replace it earlier if it shows damage or persistently reduced flow.



The filter cartridge must be allowed to air-dry completely before reinstalling



EMPTYING THE SPA



When emptying the Spa, the drainage valve should only be open while the Spa is being emptied and, before any electrical or mechanical work, switch OFF power at the breaker and secure the system against restart

Emptying takes place through the Spa's manual emptying system by gravity, through a drainage valve of 3/4". If it is necessary to refill the Spa, use a manual filling system with a garden hose or similar and fill the Spa through the top, with clean water, to the level indicated



Before draining the spa, test the sanitizer level and ensure it remains within the recommended range. If the level is above the range, circulate with the cover open to allow dissipation, or dilute with fresh water as necessary.

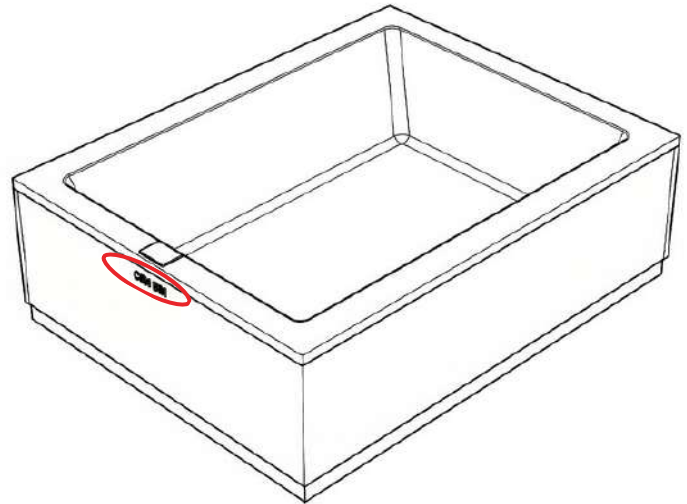
6 ALUMINUM - CABINET ASSEMBLY

INSTALLING SEQUENCE

The aluminum panels are designed for straightforward installation and are secured to the spa structure using clamps.

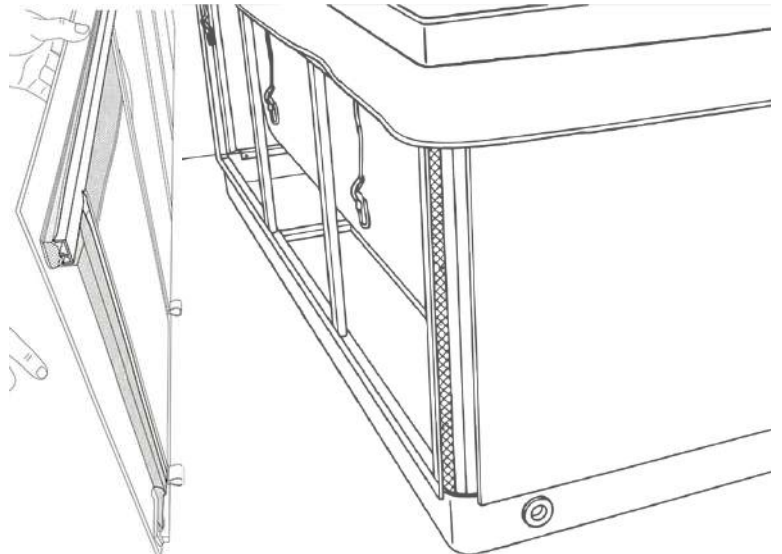
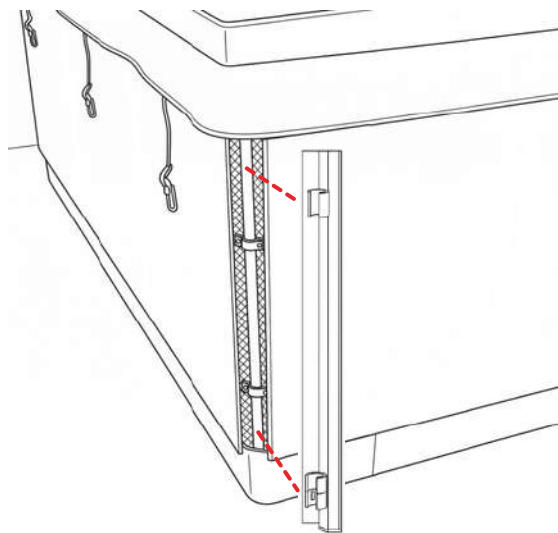
1. Identify the main panel

The panel featuring the Casa Blui logo is considered the main panel and must be installed on the same side as the touch screen.



2. Remove main panel & corner pieces

To open the spa, first remove the corner pieces securing the panel by pulling them outward carefully. Then pull from the bottom of the panel to be removed, where the clamps are located, and carefully remove it. Once the panel has been removed, connect the electrical power.



3. Reinstall the main panel

After completing the electrical connection, reinstall the main panel in its original position, making sure it is properly aligned and securely attached.

4. Check that the remaining panels are securely attached to the spa

Attach each panel carefully using the clamps, ensuring that they are properly aligned and firmly secured in place.

5. Install the corner pieces

Once all panels are installed, fit the corner pieces into position. Like the panels, the corner pieces are press-fitted and secured with clamps.

SPA INTERFACE USE

0	YOUR SPA TOUCH™ 4_WIFI SETUP	27
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5	SETTING FILTER CYCLES	36

0 YOUR SPA TOUCH™ 4_WIFI SETUP

1) Download the app.



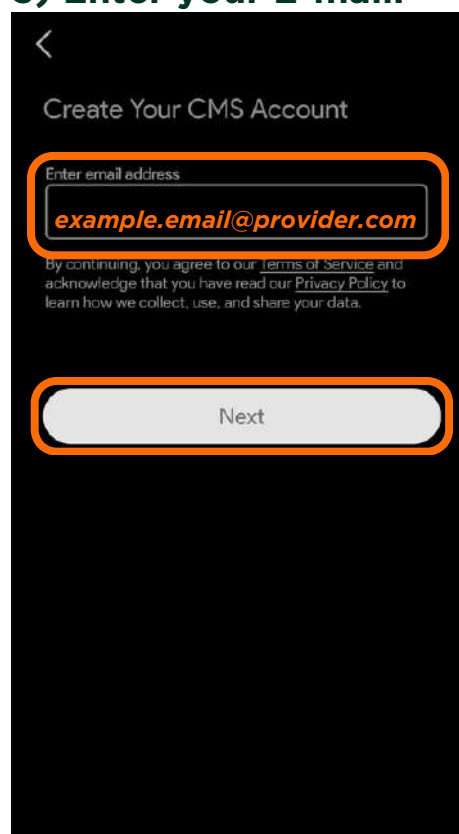
ANDROID

IOS

2) Sign up.



3) Enter your E-mail.



4) Set CMS account password.

The screenshot shows the 'Create Your CMS Account' screen. At the top is a back arrow. Below it is the title 'Create Your CMS Account'. A text input field labeled 'Enter password' contains ten asterisks. To the right of the field is an eye icon. Below the field, the text 'Passwords must have:' is followed by four checkboxes: '7-20 characters', 'Letters (a-z, A-Z)', 'Numbers (0-9)', and 'Special characters (@, #, \$, %, +, =, !,)'. At the bottom of the form is a blue 'Next' button. Below the form is a standard QWERTY keyboard.

5) Enter your Name.

The screenshot shows the 'Create Your CMS Account' screen. At the top is a back arrow. Below it is the title 'Create Your CMS Account'. There are two text input fields: 'Enter Name' with the text 'John' and 'Enter Last name' with the text 'Doe'. Both fields are highlighted with a red border. Below the fields is a blue 'Next' button, also highlighted with a red border.

6) Activate with PIN code.

The screenshot shows the activation screen. At the top is a back arrow. Below it is the text: 'Now let's confirm your email address. Please check your email at example.email@provi... and enter the pin we just sent you.' Below this text are four input fields, each containing an asterisk. Below the fields are two links: 'Didn't get a code?' and 'Request new pin in 01:56 seconds'. A red callout box is overlaid on the bottom right of the screen.

An activation **PIN code** will be sent to the provided E-mail address in **step 3**.

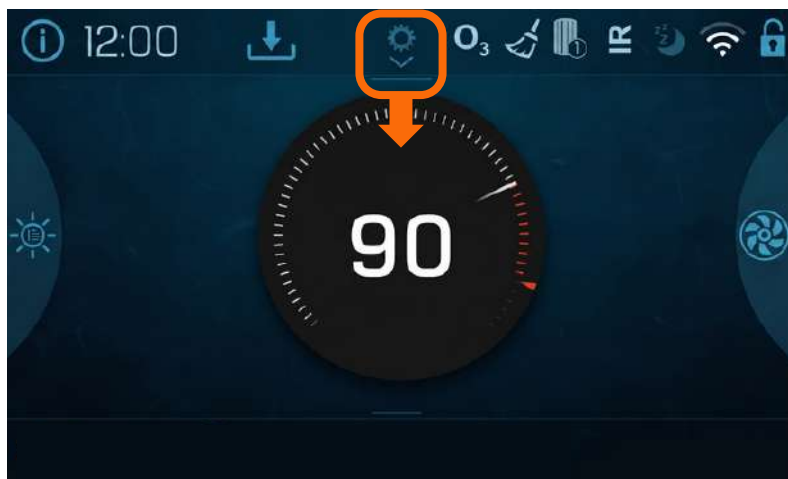
If you can't find it, make sure to check your **SPAM folder** before requesting a **new PIN code**.

7) Pair with your spa.

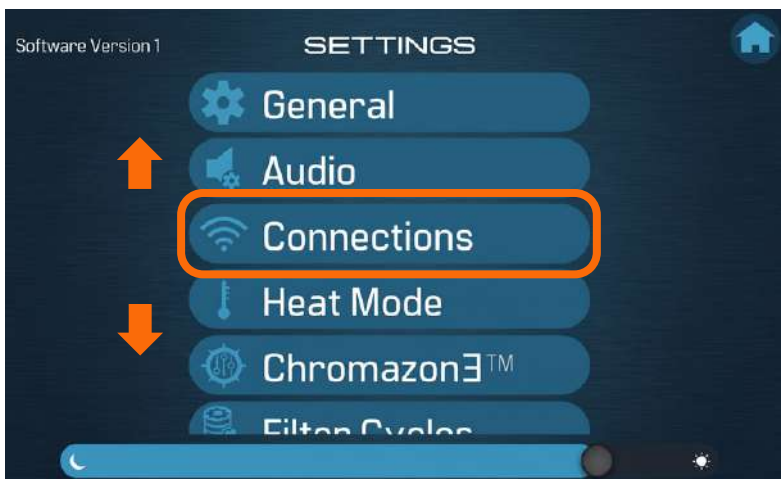
The screenshot shows the 'Setup Spa' screen. At the top is the title 'Setup Spa'. Below it is the text: 'Let's add your spa! Identify what internet module you have installed in your spa.' Below this is the section 'Select Your Device'. There are two device options: 'Gateway Ultra' and 'Spa Touch 4'. Each option has a 'Select' button and an 'Information' button. The 'Gateway Ultra' option is crossed out with a red diagonal line. The 'Spa Touch 4' option is highlighted with a green border, and an orange arrow points to its 'Select' button.

8) In your spa screen, open the settings menu

To get to the settings menu, scroll down from the icon at the top-center of the screen.

**9) Press the “Connections” button.**

If the button is not visible, scroll up/down until it appears on the screen.

**10-Enter “Control My Spa” settings.**

If it's not visible, scroll up or down until you find the button and press it.

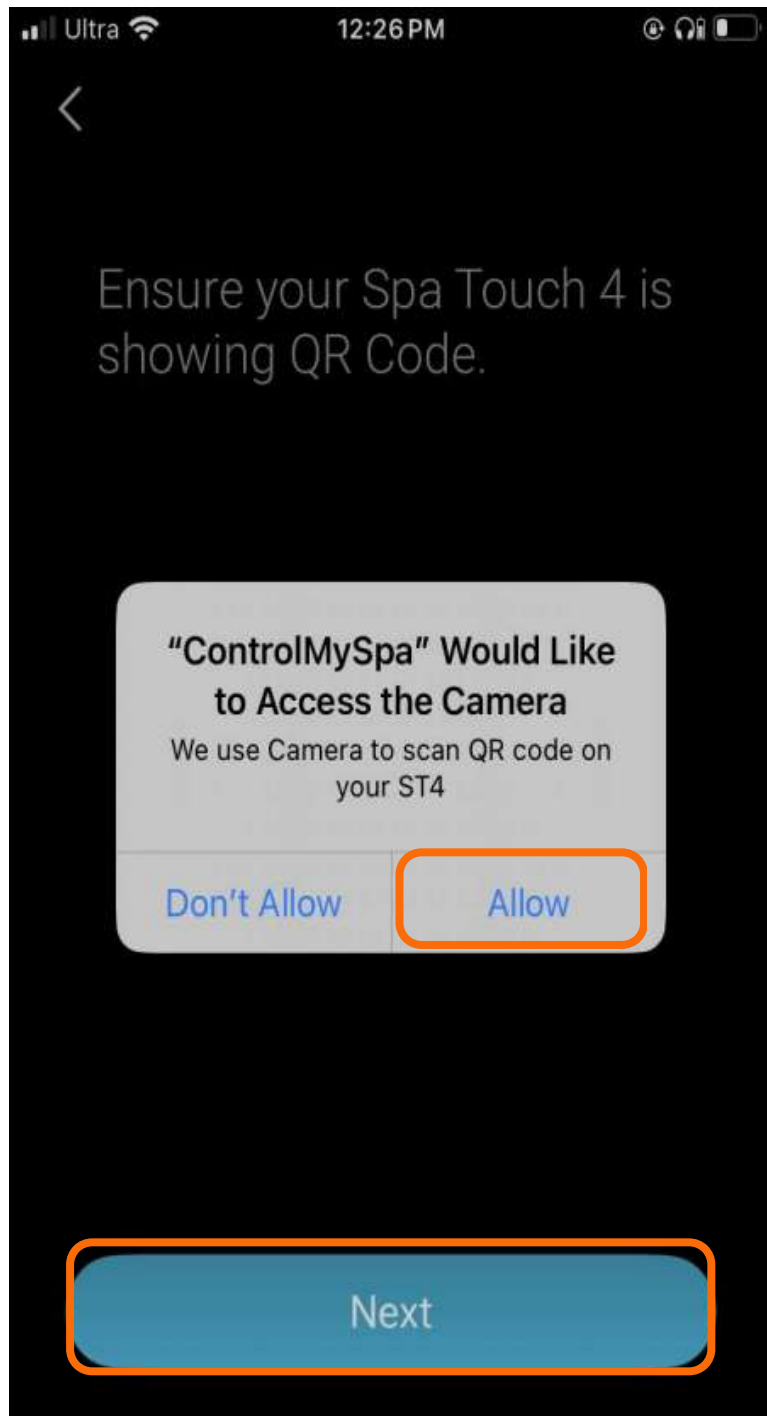
11-Enter provided CMS code.

Casa Blui CMS code: WNZ-69070

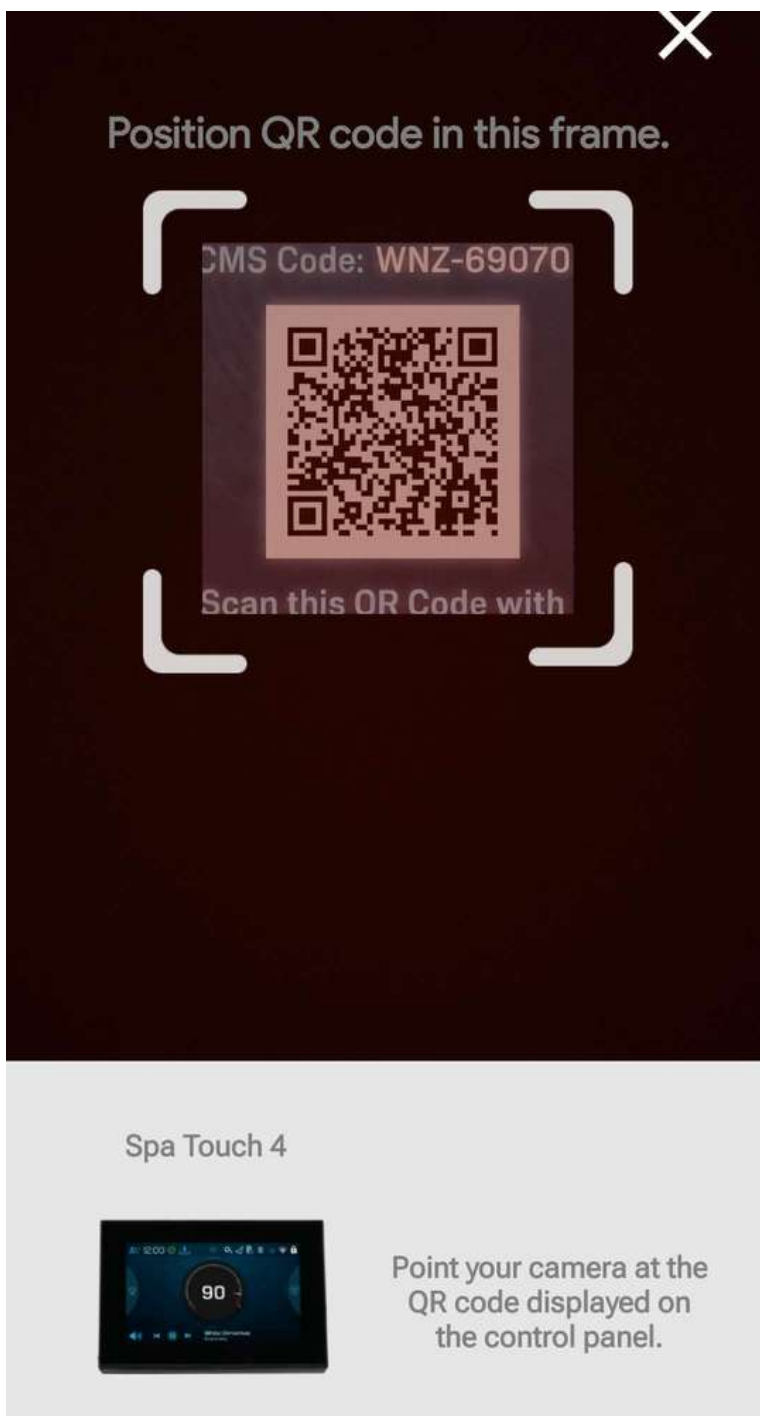
Once entered, a **QR code** will pop up in your spa screen.



12) On the app,
allow camera use.



13) Scan the QR code.



1 YOUR SPA TOUCH™ 4

TOUCH TO START

Your Spa Touch 4 display by touching anywhere on the screen. Use your fingertip to touch, scroll, slide or swipe to activate the various icons and images on the panel screen.

NOTE: Features and functions available are shown here. Your system display may vary.

To "wake up" SpaTouch 4:

1. Touch the SpaTouch 4 Screen in Sleep Mode.
2. The Splash Screen displays, and then the Home Screen displays.

MAIN SCREEN - KEY FUNCTIONALITIES



- A** - Invert Display.
- B** - Time.
- C** - Message (not always present).
- D** - Download software update.
- E** - Settings.
- F** - Ozone is running.
- G** - Cleanup cycle.
- H** - Filter cycle 1 or 2.
- I** - Heat mode.
- J** - Sleep mode.

- K** - WiFi (local or cloud connection).
- L** - Panel and/or settings is locked.
- M** - Water temperature display and control button.
- N** - Spa device controls.
- O** - Water temperature indicator.
- P** - Set temperature indicator.
- S** - Spa lighting controls
- T** - Home screen

2 USER INTERFACE



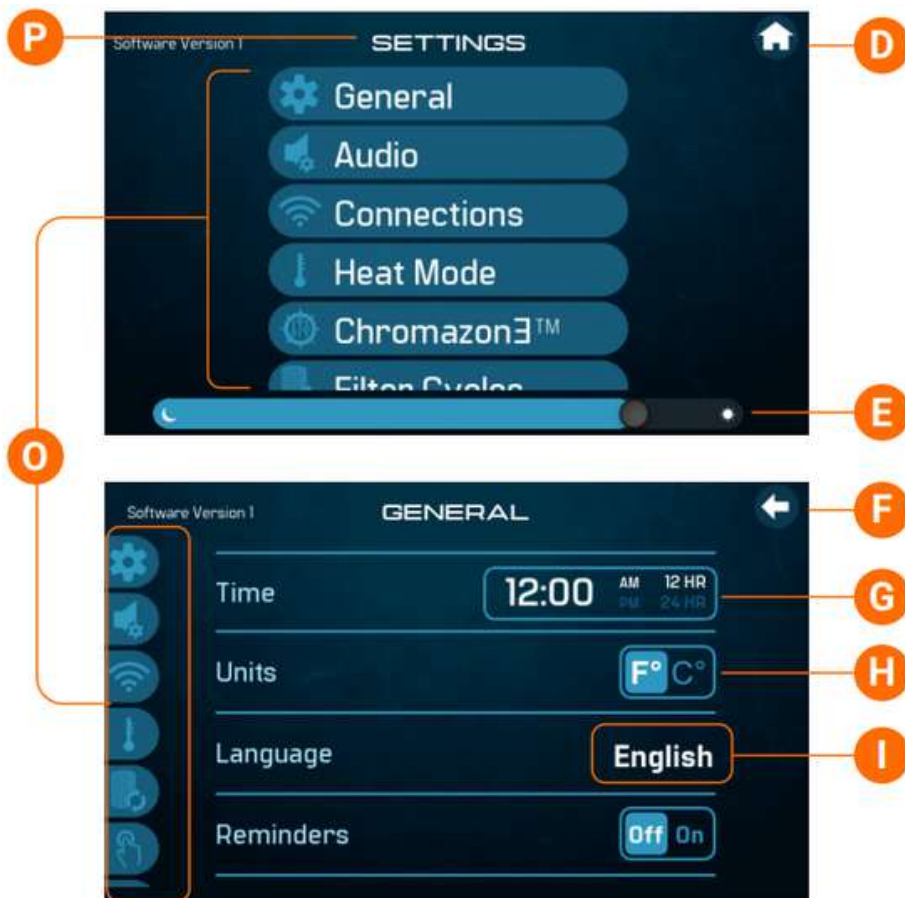
A - Swipe down here to view the Settings menu.

B - Swipe right here to view the spa devices screen.

Q - Swipe right here (if available) to view the Chromazone screen.

R - Change the Set Temperature.

S - View the message screen.



D - Navigate back to the Home screen.

E - Increase/decrease display brightness.

F - Navigate to previous screen.

G - Enter the Time screen.

H - Toggle button.

I - Enter the language screen.

O - Swipe up/down to view the Setting menu.

P - Settings screen.



J - Swipe up/down to review the list.



K - Toggle buttons.

L - Save changed settings.

M - Swipe up/down to change the settings.

N - Cancel changed setting.

N

M

L



T

U

T - Swipe down to go back to the Home screen.

U - Spa screen.

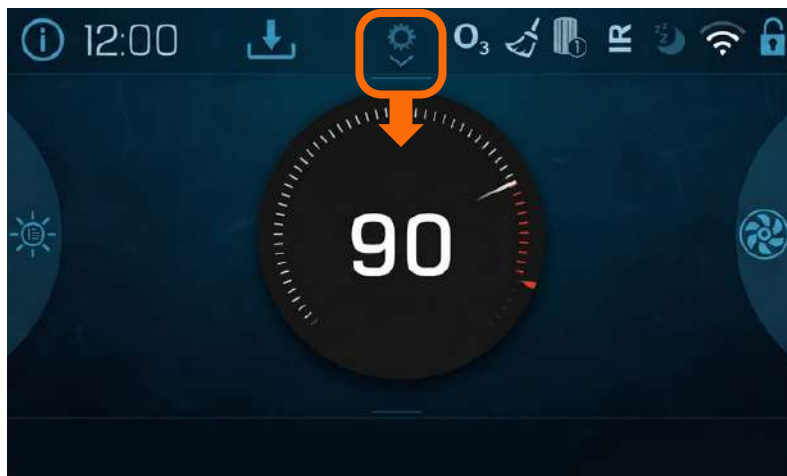
V - These icons represent available Spa screens.

V

3 SETTING THE TIME

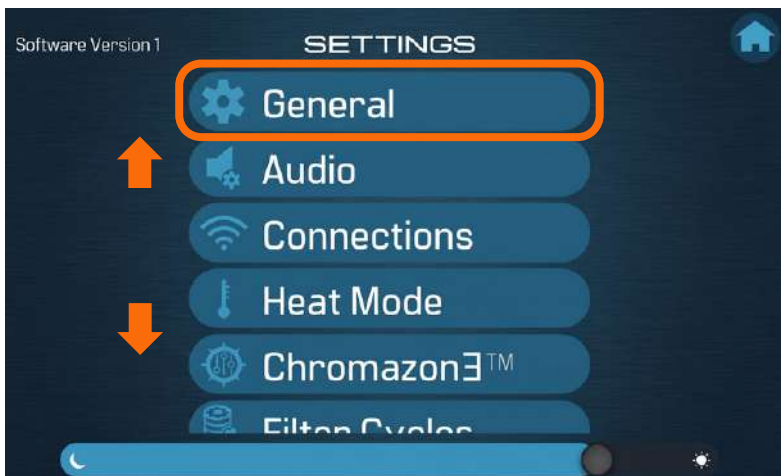
1-Open the settings menu

To get to the settings menu, scroll down from the icon at the top-center of the screen.



2-Press the “General” button.

If the button is not visible, scroll up/down until it appears on the screen.



3-Press the clock button.

Once you enter the general settings, tap on the clock to enter the time configuration menu.



4-Set the time.

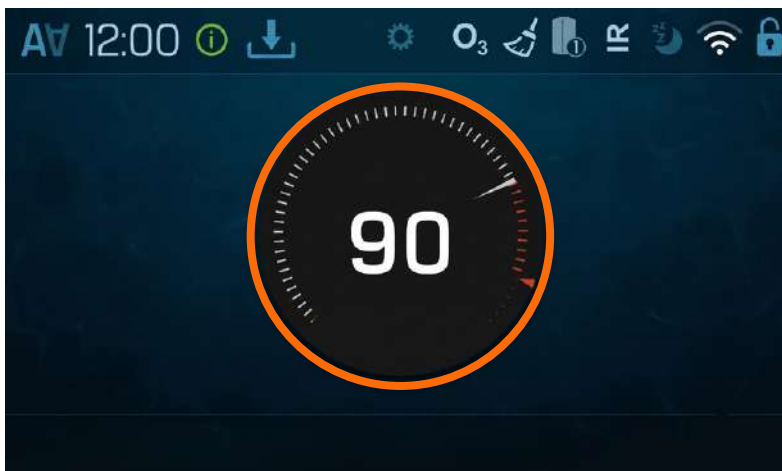
Scroll up/down till you reach the desired time configuration and confirm the setting.



4 SET THE TEMPERATURE

1-Open the temperature menu

At Home screen, tap the center of the temperature gauge.



White gauge > water temperature.
Red gauge > set temperature.

2-Set the desired temperature.

You can do this in two ways, pressing the +/- buttons or simply sliding the pointer icon.



Large number > water temperature, press to go back to Home screen.
Small number > set temperature.

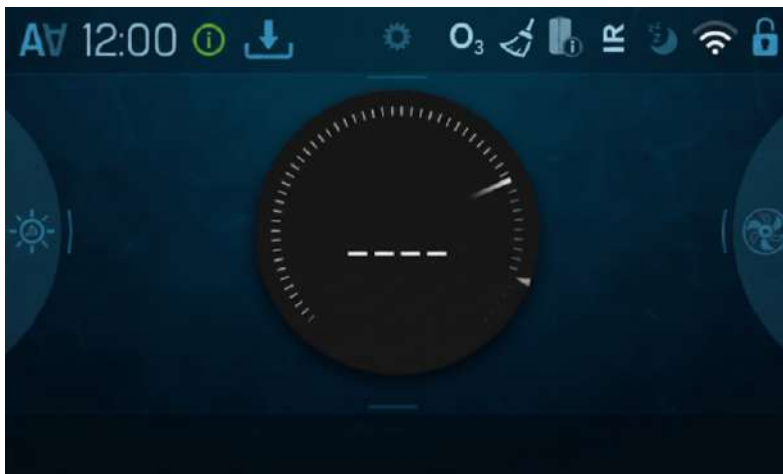
3-Heater ON indicator.

If the water temperature turns red and displays an upwards arrow, the spa heater is on.



3.5-The temperature is no longer visible.

If the reading is replaced by dashes, it means the spa has not read the water temperature for at least an hour, for the reading to be made again, wait for the next filter cycle or turn on the massage pumps.



5 SETTING FILTER CYCLES

1-Open the filter cycles menu

At Home screen, tap the center of the temperature gauge.



2-Select Cycle time to configure.

You can set cycle start and end times separately, just tap on the button showing the time you want to edit.



3-Set the time.

Scroll up/down until you find the time you want to set, confirm with the apply button.



4-Enable/Disable second filter cycle.

If you want the spa to perform two filter cycles in one day, enable it by tapping the obscured (2) button, it will turn light blue when enabled.



GENERAL MAINTENANCE

1	SAFETY & MAINTENANCE WARNINGS	38
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3	WATER MAINTENANCE	39
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5	CHEMICAL ANALYSIS	41
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7	SPECIAL PRODUCTS USE	43
8	QUICK REFERENCE TABLES	44

1 SAFETY & MAINTENANCE WARNINGS

Before performing any electrical or mechanical work, switch OFF power at the breaker and secure the system against restart (lock-out/tag-out where applicable).

Do not handle or service the equipment with wet hands or feet.

Allow components to cool before touching them.

Use only manufacturer-approved parts and follow all product instructions.

2 ACRYLIC/SOLID SURFACE SHELL CARE

Use mild, non-abrasive household cleaners suitable for acrylic. For routine cleaning, use a soft cloth or non-scratch sponge with a little soap and water. Rinse thoroughly and dry with a clean microfiber cloth.

If using any commercial cleaner, confirm it is specifically recommended for acrylic surfaces by its manufacturer. Always spot-test in an inconspicuous area first.

Never use abrasive powders, scouring pads, or polishing creams that can dull or scratch the surface.

Keep the acrylic away from ketones or esters (e.g., acetone), acetates (e.g., nail-polish remover or dry-cleaning agents), chlorinated or aromatic solvents, gasoline, paint thinners, varnishes, or similar chemicals.

Wipe away dust and smudges with a soft, slightly moist cloth; dry immediately to prevent water spots.

Remove grease, oil, paint, and ink marks with isopropyl alcohol (up to 70%). Apply with a soft cloth, then rinse with water and dry with a clean cloth.

Do **not** use razors, scrapers, or any sharp tools on the acrylic.

For light surface marks, use a fine automotive polish or a plastic/acrylic scratch-removal product. Buff gently with a clean cloth and follow the product instructions. Avoid waxes that may leave slippery residue on areas contacted by bathers.

Weekly: Clean the sections of the spa **above the waterline** (areas not submerged) and, if desired, apply a spa-safe acrylic polish to maintain gloss. Do not polish floor or seating areas where slip resistance is important.

ATTENTION: *Never leave the spa uncovered, empty, and exposed to direct sunlight. Prolonged UV and heat can cause warping, discoloration, and surface damage that is not covered by the warranty. If the spa must be drained, keep it shaded and covered, and refill promptly.*

3 WATER MAINTENANCE

Water maintenance is one of the areas that requires the greatest attention due to its impact on safety, comfort, and equipment longevity. The specific actions and frequency depend on the mineral content of the fill water, how often the spa is used, and the number of people using it.

The most important thing to keep in mind is that the **water should be changed every 6 months.**

The three main points to consider are:

- **Filtration**
- **Chemical Analysis**
- **Disinfection of the water**

SAFE HANDLING AND USE OF CHEMICAL PRODUCTS

Before using any chemical product, always read the instructions on its product label and follow the manufacturer's recommendations.

- Assign one trained person to handle all spa chemicals.
- Keep products out of reach of children and pets.
- Measure carefully and add only the recommended amount.
- Store in sealed containers, in a cool, dry, well-ventilated place, away from sunlight.
- Avoid breathing vapors or dust; prevent contact with skin, eyes, and mouth.
- Wash hands thoroughly after handling chemicals.
- In case of spills or exposure, follow the emergency directions on the product label.
- Keep away from flames, sparks, and smoking areas — many products are flammable.
- Never store chemicals inside the spa cabinet or near electrical components.
- Add chemicals to water one at a time, allowing time between doses to prevent reactions.
- Do not add products while people are in the spa.
- Test water daily for pH and sanitizer levels during frequent use.
- Use only products specifically designed for spas or hot tubs.
- Dispose of containers safely, following local waste regulations.

4 FILTRATION

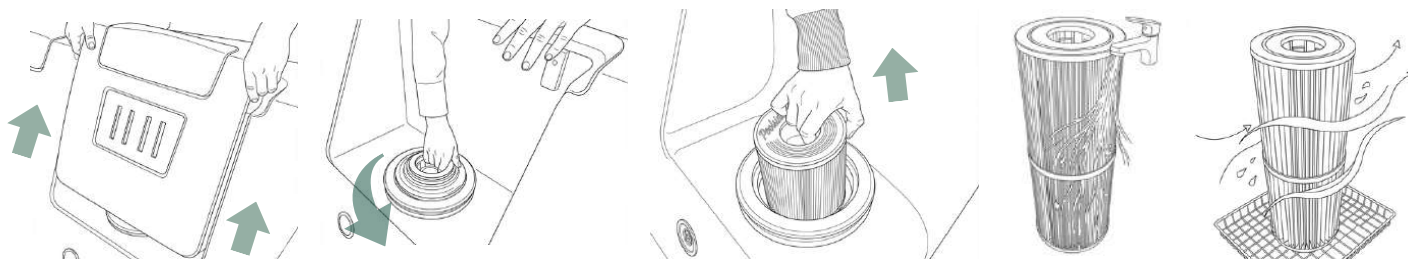
REGULAR MAINTENANCE

Rinse the filter cartridge with a gentle garden-hose stream **every 1-2 weeks** with heavy use (daily/large family) or about monthly with lighter use. A quick rinse between the pleats removes hair, lint, and fine debris to keep water flow strong. If oils/lotions build up, a spray-on filter cleaner can be used for a quick degrease before rinsing.

Do not use dish soap, bleach, or household cleaners—they leave residue and can damage the media.

How to do it:

1. Turn power off and remove the cartridge(s).
2. Hose from top to bottom, spreading the pleats with your fingers or a hose attachment so water reaches the inner folds. Avoid pressure washers or dishwashers.
3. Optional: apply an instant/spray filter cleaner, wait the labeled contact time (typically a few minutes), then rinse thoroughly.
4. Reinstall when fully rinsed.



DEEP SOAK CLEANING

Perform a chemical soak to remove embedded oils, soap film, and minerals about once a month for heavy use or every 2-3 months for lighter use.

Also tie a deep soak to each drain/refill. Allow the cartridge to air-dry fully before reinstalling.

How to do it:

1. Fill a clean bucket with water and add filter-cleaner per its label.
2. Submerge the cartridge fully and soak several hours
3. Rinse until runoff is clear and let the filter dry completely before putting it back.
4. Any cleaner left in the media can cause foaming.

REPLACEMENT SCHEDULE

For standard pleated cartridges, plan on:

- **Typical residential use:** about 12-24 months.
- **Light use/very clean water:** up to 24-36 months.
- **Heavy use/commercial or frequent parties:** 6-12 months.

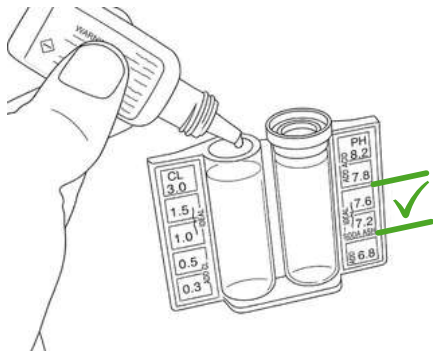
Replace earlier if you see tears, frayed or flattened pleats, cracked end caps, persistent discoloration/odor after cleaning, or chronically reduced flow.

5 CHEMICAL ANALYSIS

For optimal spa performance and low-maintenance water, keep pH, alkalinity, and hardness within the recommended ranges. Test these parameters regularly and adjust as needed to maintain proper balance.

- **pH:** Maintain between 7.4 and 7.6 for disinfectants to work effectively.
- **Alkalinity:** Keep between 80 - 125 ppm to stabilize pH and protect equipment.
- **Hardness:** Keep between 100 - 200 ppm.

Balanced water ensures it remains clear, clean, and easy to manage over time.



Water Hardness Scale

Grains/Gal	mg/L & ppm	Classification
Less than 1	Less than 17.1	Soft
1 - 3.5	17.1 - 60	Slightly Hard
3.5 - 7	60 - 120	Moderately Hard
7 - 10	120 - 180	Hard
over 10	over 180	Very Hard

Water Source: Tap vs. Well

Maintaining clean, high-quality water is essential for both spa hygiene and long-term durability.

- Tap water is generally safe, as it is microbiologically treated and free from most metals, organic matter, and other impurities that could harm the spa.
- Well water, on the other hand, can contain oxides, dissolved metals, organic debris, and bacteria. These can encourage algae growth and lead to staining, scaling, or other damage to the spa's surfaces and components.

For best results, use treated tap water or properly filtered and disinfected well water before filling your spa.

Water Hardness

It reflects the total dissolved calcium in the water. It influences how corrosive or scale-forming the spa water is.

Very low hardness ("soft" water) is not recommended because it's aggressive to equipment and can stain the shell.

Very high hardness ("hard" water) promotes scale on surfaces and components.

If hardness is too high:

- Lower it by dilution—use a mix of roughly 75% hard water + 25% soft water as a starting point.
- If soft water isn't available, dose a stain/scale control product as directed on its label.

If hardness is too low:

- Avoid filling with soft water; raise hardness by topping up with a higher-calcium (harder) source.
- Once hardness is in range, it generally stays stable unless you add water that's much harder or softer.

Water Alkalinity

Alkalinity refers to the concentration of alkaline compounds (such as carbonates, bicarbonates, and hydrates) dissolved in the water.

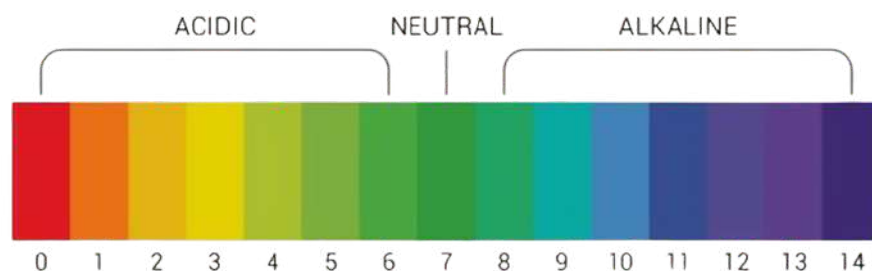
When alkalinity drops below 80 mg/l or rises above 125 mg/l, pH can become unstable, making it harder to maintain proper water balance.

If below 80 mg/L, add an **alkalinity increaser** ; if above 125 mg/L, lower with small doses of **pH decreaser or partially dilute with fresh water**. Run the pumps to circulate, then retest. Be sure the products are compatible with hot tubs.

Water pH

It measures the level of hydrogen ions (H^+) in the water, indicating its acidity or alkalinity. The recommended range is between 7.4 and 7.6 (neutral is 7). Maintaining this range helps:

- Protect bathers' comfort — the skin, eyes, and mucous membranes are close to this natural pH level.
- Extend the lifespan of the spa's surfaces and components.
- Ensure sanitizing chemicals work effectively, reducing overall product use.



If below 7.4, add a **pH increaser** (Sodium Hydrogen Carbonate); if above 7.6, add a **pH decreaser** (Sodium Bisulfate). Run the pumps to circulate, then retest. Be sure the products are compatible with hot tubs.

QUICK REFERENCE

Steps	Parameter	Ideal Range (ppm) – Minimum	Ideal Range (ppm) – Maximum	What Chemicals to Use — To Raise	What Chemicals to Use — To Lower
1	Total Alkalinity	80	125	Sodium Hydrogen Carbonate, or Sodium Bicarbonate	Sodium Bisulfate
2	Calcium Hardness	100	200	Calcium Hardness Increaser	Use a mixture of 75% hard water and 25% soft water or use a Stain and Scale Inhibitor
3	pH	7.4	7.6	Sodium Hydrogen Carbonate	Sodium Bisulfate

6 WATER DISINFECTION

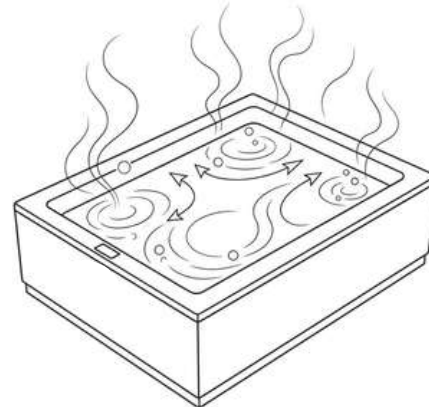
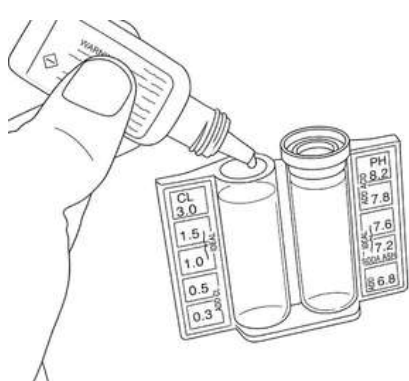
Maintaining the correct disinfectant level is essential to eliminate algae, bacteria, and other microorganisms that can develop in spa water. Overdosing should be avoided, as it may cause skin or eye irritation and can affect the spa's components.

The recommended primary disinfectant is bromine tablets, placed in the pre-filter or a suitable feeder to dissolve gradually and provide a constant residual in the water. Test the bromine concentration daily using an appropriate analyser kit, and ensure it remains within the range of **2.2 to 3.3 ppm**.

If chlorine is used instead, maintain free residual chlorine between **0.5 and 1.5 ppm**. Always add chemicals separately and with no bathers in the spa.

When the sanitizer level is below the recommended range, increase dosing and allow the water to circulate thoroughly before re-testing. If the level is above the range, circulate with the cover open to allow dissipation, or dilute with fresh water as necessary.

Secondary systems such as ozone or UV can support oxidation and water clarity but must never replace a continuous bromine or chlorine residual. All test results and corrective actions should be documented as part of the spa's maintenance records, and any stricter local regulations should take precedence.



7 SPECIAL PRODUCTS USE

Beyond the main sanitizer program, the following spa-specific products help keep water and surfaces in good condition. Use as directed by the manufacturer.

- Scale inhibitor: Prevents calcium scale, especially in hard-water areas. Dose weekly and after every water change.
- Algaecide: Suppresses algae growth in the spa water. Add weekly and each time the water is renewed.
- Foam remover: Controls foam caused by aeration and body oils. Use only when noticeable foam appears.
- Grease/line cleaner: Removes the oily ring on spa walls. For best results, drain the spa, apply with a sponge to the affected areas, then rinse immediately with plenty of water.

8 QUICK REFERENCE TABLES

PRODUCTS QUICK REFERENCE

Product	Reason for use	Frequency of use
pH ADJUSTER	Use when pH is outside 7.4–7.6: if above, add pH Minor; if below, add pH Major.	Check pH daily with a test kit.
BROMINE TABLETS	Add if the bromine residual is below the recommended range (2.2–3.3 ppm).	Test bromine daily with a Br test kit.
LIMESCALE REMOVER	Prevents formation of calcium scale.	Once per week and after each water change .
ALGAECIDE	Prevents algae growth in the water.	Once per week and after each water change .
GREASE REMOVER	Removes oily/dirt rings on spa walls.	Whenever deposits are observed ; scrub with a sponge and rinse immediately with plenty of water.
FOAM REMOVER	Treats visible foam on the water surface.	Whenever foam appears in the water.

FILTRATION

Task	When (Residential)	Notes
Quick hose rinse	Every 1–2 weeks with heavy use; about monthly with lighter use	Gentle garden-hose stream between pleats; avoid pressure washers/dishwashers.
Spray cleaner (instant)	About monthly or whenever oily film builds up	Apply, wait label contact time, then rinse thoroughly.
Deep soak (chemical)	Monthly with heavy use; every 2–3 months with lighter use; also at each drain/refill	Fully submerge in filter-cleaner solution for several hours to overnight; rinse until runoff is clear; air-dry fully before reinstalling.
Rotate spare filter	Whenever you deep-clean	Keep a second cartridge to avoid downtime while one dries.
Replace cartridge	Typically 12–24 months (light use up to 24–36 months; heavy use 6–12 months)	Replace sooner if tears, flattened pleats, cracked end caps, persistent discoloration/odor, or chronically reduced flow after cleaning.

CHEMICAL ANALYSIS

Parameter / Action	When (Residential)	Target / Guidance
Test pH	Daily during frequent use; otherwise regularly	Keep 7.4–7.6 ; adjust with spa-compatible pH increaser/decreaser; circulate and retest.
Test Total Alkalinity	At start-up and after major top-ups or when pH won't hold	Keep 80–125 ppm to stabilize pH; adjust with alkalinity increaser or small doses of pH decreaser/dilution.
Test Calcium Hardness	At start-up ; reassess after significant water additions or if scaling/corrosion signs appear	Keep 100–200 ppm ; if high, dilute or use stain/scale control; if low, raise hardness (avoid prolonged "soft" water).

DISINFECTION OF THE WATER

Task	When (Residential)	Target / Guidance
Maintain primary sanitizer (bromine tablets in feeder/prefilter)	Continuous; test daily	Keep 2.2–3.3 ppm bromine; add tablets/adjust as needed. If low, increase dosing and circulate; if high, circulate with cover open or dilute; never add chemicals with bathers in spa.
(If using chlorine instead)	Continuous; test daily	Keep 0.5–1.5 ppm free chlorine.
Support products (if used): scale inhibitor; algaecide	Weekly and after every water change	Follow product labels; these support clarity/scale control but do not replace a sanitizer residual.
Foam remover; grease/line cleaner	As needed ; grease/line cleaner best used during a drain	Use only when foam appears; for grease line, apply while drained and rinse well.
Ozone/UV (secondary)	Continuous (if equipped)	Aids clarity/oxidation but never replaces bromine/chlorine residual. Document test results and actions.



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