



# UTOPIA<sup>®</sup> SERIES

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# WELCOME



**WATKINS WELLNESS** congratulates you on your decision to enjoy the finest spa available. Welcome to the growing family of **Caldera®** spa owners.

## OWNER'S MANUAL

This Owner's Manual will acquaint you with the operation and general maintenance of your new spa. We suggest that you take some time to carefully review all sections. Please keep this manual available for reference.

If you have questions about any aspect of your spa's set-up, operation or maintenance, contact your authorized **CALDERA** dealership. They are trained professionals who are familiar with the product as well as new spa ownership concerns. Their expertise will facilitate the enjoyment of your new **CALDERA** spa.

The serial number/identification label is located within the equipment compartment of your **CALDERA** spa. The serial number should also be documented on the delivery receipt from your dealer.

**IMPORTANT: WATKINS WELLNESS** reserves the right to change specifications, or design, without notification and without incurring any obligation.

DATE PURCHASED: \_\_\_\_\_

DATE INSTALLED: \_\_\_\_\_

DEALER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

SPA MODEL/SERIAL NUMBER: \_\_\_\_\_

COVER SERIAL NUMBER: \_\_\_\_\_



MODEL: TAHITIAN  
SERIES: UTOPIA  
SERIAL: TABE1WXXXX  
RATINGS: 240V, 50Hz



LISTED SELF CONTAINED SPA  
1280 Park Center Dr., Vista, CA 92081  
Watkins Manufacturing Corp.

TABE1WXXXX



**NOTE:** This is an example. Your spa's label will contain different information. Peel off top sticker and place here.

In most cities and counties, permits will be required for the installation of electrical circuits or the construction of exterior surfaces (decks and gazebos). In addition, some communities have adopted residential barrier codes which may require fencing and/or self-closing gates on the property to prevent unsupervised access to a pool (or spa) by children under 5 years of age. Your **CALDERA** spa is equipped with a locking cover that meets the ASTM F1346-91 Standard for Safety Covers, and as a result, is usually exempt from most barrier requirements. As a general practice, your local Building Department will inform you of any applicable barrier requirements at the time a permit is obtained for the installation of an electrical circuit. Your **CALDERA** dealer can provide information on which permits may be required.

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# SAFETY INFORMATION

## IMPORTANT SAFETY INSTRUCTIONS

### (READ AND FOLLOW ALL INSTRUCTIONS)

#### AVOIDING THE RISK TO CHILDREN

##### **DANGER - RISK OF CHILD DROWNING**

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

##### **WARNING**

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

- To reduce the risk of injury, do not permit children to use this spa unless they are closely supervised at all times.
- To reduce the risk of injury, lower water temperatures are recommended for young children. Children are especially sensitive to hot water.
- The device should not be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they receive supervision or training.

##### **DO:**

- Make sure you always lock the child resistant locks after using the spa for your children's safety. Every **CALDERA** spa is equipped with a locking cover that meets the ASTM F1346-91 Standard for Safety Covers.
- Test the water temperature with your hand before allowing children to enter the spa to be sure that it's comfortable. Children are especially sensitive to hot water.
- Remind children that wet surfaces can be very slippery. Make sure that children are careful when entering or exiting the spa.

##### **DON'T:**

- Allow children to climb onto the spa cover.
- Allow children to have unsupervised access to the spa.

#### AVOIDING THE RISK OF ELECTROCUTION

##### **DANGER - RISK OF ELECTROCUTION**

- Connect only to a grounded source.
- Do not bury the power cord. A buried power cord may result in death, or serious personal injury due to electrocution if direct burial-type cable is not used, or if improper digging occurs.
- A ground terminal (pressure wire connector) is provided on the control box inside the unit to permit connection of a minimum 10 mm<sup>2</sup> (No. 8 AWG) solid copper bonding conductor between this point and any metal equipment, metal water pipe, metal enclosures of electrical equipment, or conduit within 1.5 m (5 feet) of the unit as needed to comply with local requirements.

- Do not operate the main audio/video button controls on any external media devices such as a CD or DVD player while inside in the spa. Operation of integrated audio/video equipment through the spa control panel or wireless remote is permitted and acceptable.
- Do not connect any auxiliary components (for example, cable additional speakers, headphones, additional audio components) to the audio system unless approved by **WATKINS WELLNESS**.
- Do not self service audio component by opening spa door as this may expose dangerous voltage or other risk of injury. Refer all servicing to qualified service personnel.
- Do not attach an external antennae to a spa audio system unless installed by a licensed electrician in accordance with National Electric Code.

##### **WARNING**

- To reduce the risk of electrical shock, replace a damaged cord immediately. Failure to do so may result in death or serious personal injury due to electrocution.
- In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
- Always test the Ground Fault Circuit Interrupter (GFCI) before each use of the spa. If the GFCI does not perform properly, a ground current is flowing indication the possibility of electric shock. Disconnect power to the spa until the fault has been identified and corrected.
- Your spa must be supplied by a ground fault circuit interrupter - residual current device (RCD) - with a tripping rating not exceeding 30 mA in an electrical subpanel.

##### **DANGER - RISK OF ELECTRICAL SHOCK**

- Install spa at least 1.5 m from all metal surfaces. A spa may be installed within 1.5 m of a metal surface if each metal surface is permanently connected by a minimum 10 mm<sup>2</sup> (8 AWG) solid copper conductor attached to the wire ground connector on the terminal box that is provided for this purpose.
- Do not permit any electrical appliances, such as a light, telephone, radio, or television within 1.5 m of a spa. Failure to maintain a safe distance may result in death, or serious personal injury due to electrocution, if the appliance should fall into the spa.
- Install your spa in such a way that drainage is away from the electrical compartment and from all electrical components.

##### **DO:**

- Be sure your spa is connected to the power supply correctly - use a licensed electrical contractor.
- Disconnect the spa from the power supply before draining the spa or servicing the electrical components.
- Test the Ground Fault Circuit Interrupter(s) before each use.
- Replace audio components only with identical components (if your spa is equipped with an audio component).



## DON'T:

- Use the spa with the equipment compartment door removed.
- Place electrical appliances within 1.5 m of the spa.
- Use an extension cord to connect the spa to its power source. The cord may not be properly grounded and the connection is a shock hazard. An extension cord may cause a voltage drop, which will cause overheating of the jet pump motor and motor damage.
- Attempt to open the electrical control box. There are no user serviceable parts inside.

## RISKS TO AVOID

### DANGER - RISK OF INJURY

- To reduce the risk of injury to persons, DO NOT remove suction fittings (filter standpipes) located in the filter compartment.
- The suction fittings in the spa are sized to match the specific water flow created by the pump. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.
- There is a danger of slipping and falling. Remember that wet surfaces can be very slippery. Take care when entering or exiting the spa.
- Never operate spa if the suction fittings are broken or missing.
- People with infectious diseases should not use the spa.
- Keep any loose articles of clothing, long hair, or hanging jewelry away from rotating jets or other moving components.

### INCREASED SIDE EFFECTS OF MEDICATION

- The use of drugs, alcohol may cause unconsciousness with the possibility of drowning.
- Persons using medications should consult a physician before using a spa; some medication may cause a user to become drowsy, while other medication may affect heart rate, blood pressure, and circulation.
- Persons taking medications which induce drowsiness, such as tranquilizers, antihistamines, or anticoagulants should not use the spa.

### HEALTH PROBLEMS AFFECTED BY SPA USE

- Pregnant women should consult a physician before using spa.
- Persons suffering from obesity, or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using spa.

### UNCLEAN WATER

- Keep the water clean and sanitized with correct chemical care. The recommended levels for your **CALDERA** spa are:

Free Available Chlorine: 3.0-5.0 ppm	Total Alkalinity: 40-120 ppm
Water pH: 7.2-7.8	Calcium Hardness: 50-150 ppm

- Refer to Water Quality and Maintenance section for complete instructions.

**IMPORTANT:** Turn on the jet pump for a least ten minutes after adding ANY spa water chemicals into the filter compartment.

Clean the filter cartridges monthly to remove debris and mineral buildup which may affect the performance of the hydromassage jets, limit the flow, or trip the high limit thermostat, which will turn off the entire spa.

### AVOIDING THE RISK OF HYPERTHERMIA

Prolonged immersion in hot water can result in HYPERTHERMIA, a dangerous condition which occurs when the internal temperature of the body reaches a level above normal 37°C. The symptoms of hyperthermia include unawareness of impending hazard, failure to perceive heat, failure to recognize the need to exit the spa, physical inability to exit the spa, fetal damage in pregnant women, and unconsciousness resulting in a danger of drowning.

### WARNING

The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

### TO REDUCE THE RISK OF INJURY

- The water in the spa should never exceed 40°C (104°F). Water temperatures between 36°C and 40°C (100°F and 104°F) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding ten minutes) and for young children. Extended use can cause hyperthermia.
- Pregnant or possibly pregnant women should limit spa water temperatures to 36°C (100°F). Failure to do so may result in permanent injury to your baby.
- Do not use spa immediately following strenuous exercise.

### AVOIDING THE RISK OF SKIN BURNS

- To reduce the risk of injury, before entering a spa the user should measure the water temperature with an accurate thermometer.
- Test the water with your hand before entering the spa to be sure it's comfortable.

### SAFETY SIGN

Each **CALDERA** spa is shipped with a SAFETY SIGN in the owner's package. The sign, which is required as a condition of Product Listing, should be permanently installed where it is visible to the users of the spa. To obtain additional SAFETY SIGNS, contact your **CALDERA** dealer and request Part #70798.

# IMPORTANT SPA INSTRUCTIONS

The following contains important spa information, and we strongly encourage you to read and apply them.

## DO:

- Use and lock the vinyl cover when the spa is not in use, whether it is empty or full.
- Follow the Spa Care and Maintenance recommendations stated in this manual.
- Use only approved accessories and recommended spa chemicals and cleaners.
- Provide adequate drainage to deal with overflow water.

## DON'T:

- Leave the **CALDERA** spa exposed to the sun without water or the cover in place. Exposure to direct sunlight can cause solar distress of the shell material.
- Roll or slide the spa on its side. This will damage the siding.
- Lift or drag the vinyl cover by using the cover lock straps; always lift or carry the cover by using the handles.
- Attempt to open the electrical control box. There are no user serviceable parts inside. Opening of the control box by the spa owner will void the warranty. If you have an operational problem, carefully go through the steps outlined in the Troubleshooting section. If you are not able to resolve the problem, contact your authorized **CALDERA** dealer. Many problems can easily be diagnosed over the telephone by an Authorized Service Technician.

## SPA SHELL

Your **CALDERA** spa has an acrylic shell. Stains and dirt generally will not adhere to your spa's surface. A soft rag should easily remove most dirt. Most household chemicals are harmful to your spa's shell (see below for detailed information on cleaning agents). Always rinse off any spa shell cleaning agent with fresh water.

## IMPORTANT:

1. The following products are the **ONLY** approved cleaning agents for your **CALDERA** spa shell: plain water, **CALDERA** Monarch™ Spa Shine, Brilliantize® or Soft Scrub®. The use of alcohol or any other household cleaner other than those listed to clean the spa shell surface is **NOT** recommended. **DO NOT** use any cleaning products containing abrasives or solvents since they may damage the shell surface, specifically: Simple Green®, Windex® or Spa Mitt. **NEVER USE HARSH CHEMICALS!** Damage to the shell by use of harsh chemicals is not covered under the warranty. Always rinse off any spa shell cleaning agent with fresh water.
2. Iron and copper in the water can stain the spa shell if allowed to go unchecked. Ask your **CALDERA** dealer about a Stain and Scale Inhibitor to use if your spa has a high concentration of dissolved minerals. (**WATKINS WELLNESS** recommends **MONARCH** Stain & Scale Defense.)
3. Keep all cleaners out of the reach of children and use care when applying.

## SAVE THESE INSTRUCTIONS

# GETTING STARTED

## MAIN SPA FEATURES



1 ) The **Main control panel** provides a quick visual check of the spa's status and allows the user to set different functions of the spa.



2) The **Auxiliary control panel** allows the user to activate the jets, air jets and lights across from the main control panel.



3 ) The **Diverter** system lets you divert water to different combinations of jets simply by turning the lever.



4) The **Air Valve** lever lets you dial in the ideal amount of air for your jets.



5) The **Water Feature Lever** adjusts the amount of water that flows from the water feature.



6) The **Atlas™ Neck Jet** Valve regulates the flow to the neck jets.



7) The **AdaptaSsage™** jet provides a rotating massage pattern.



8) The **AdaptaFlo™** jet allow you to redirect the jet stream by changing the position of the nozzle.



9) The **Euro Directional** jets, with eyeball nozzles, deliver a direct, more focused massage.



10) The **Euro-Pulse™** jets feature a special insert that creates a soft, pulsating, rotary massage.



11) The **VersaSsage™** jet may be adjusted to provide either a stationary, direct stream or, by positioning the nozzle to one side or the other, a rotating jet stream.



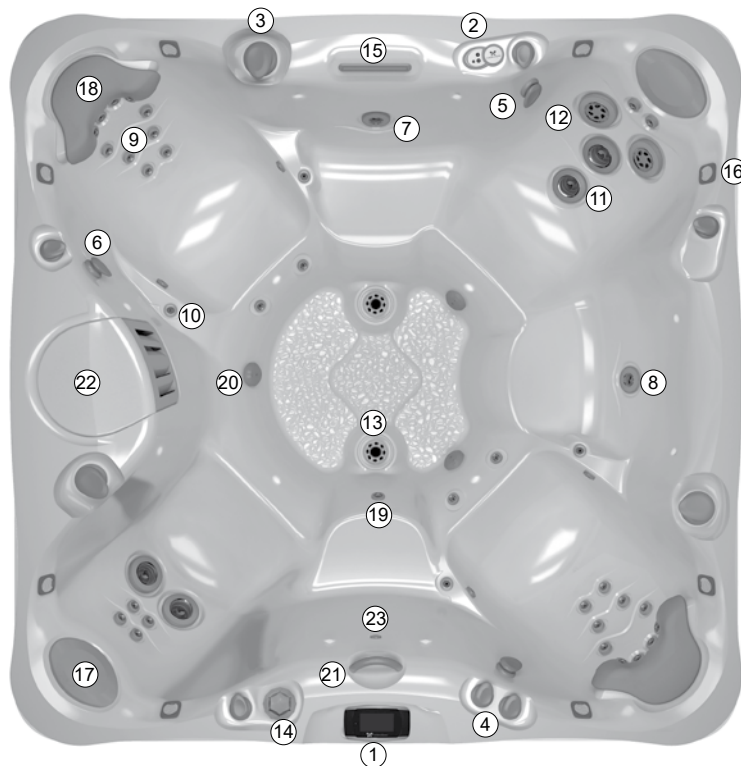
12) The **OrbiSsage™** jet provides a unique, pulsating massage.



13) The **Euphoria™** jet provides a deep, powerful, penetrating massage to your thighs, knees, calves, and feet.



14) **FROG** housing cap.



## ADDITIONAL SPA FEATURES

15) ACQUARELLA water feature

16) 1" Speaker (Optional)

17) Pillow

18) **ATLAS** Neck Jet Pillow

19) Ozone Jet/Heater Return

20) Suction Screen

21) Grab Rail

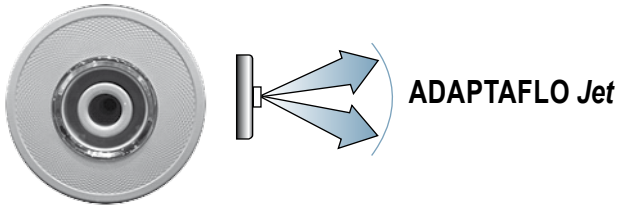
22) Filter Compartment Lid

23) Temperature Sensor

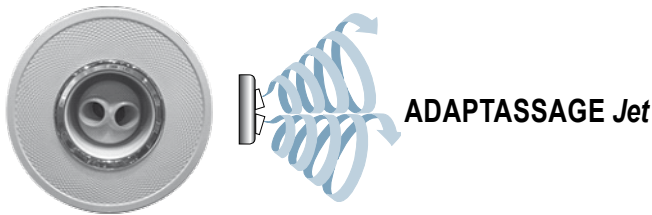


## HYDRO JETS

**ADAPTAFLO Jets** - These jets allow you to redirect the jet stream by changing the position of the nozzle.

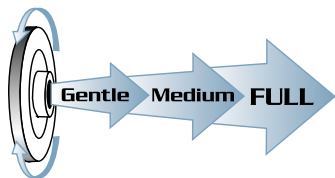


**ADAPTASSAGE Jets** - These jets provide a rotating massage pattern.

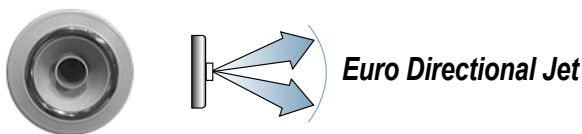


The face plates in the **ADAPTAFLO** jets and the **ADAPTASSAGE** jets are interchangeable. To remove a **ADAPTASSAGE** face plate, turn it counter-clockwise until it stops turning. Turn the face once more until you hear a clicking noise, push it in, and then pull it straight off. Install the face plate by snapping it into place. Additional **ADAPTASSAGE** dual-port nozzles are available from your **CALDERA** dealer.

Both the **ADAPTAFLO** and **ADAPTASSAGE** jets allow you to regulate the force of the massage. Rotate the fascia ring to reduce or increase the force. Notice that turning off the flow to some jets increases the flow to the other jets. To avoid damage to your spa's plumbing and components, do not turn off more than half of these jets at the same time.



**Euro Directional** - The Euro Directional jets, with eyeball nozzles, deliver a direct, more focused massage.



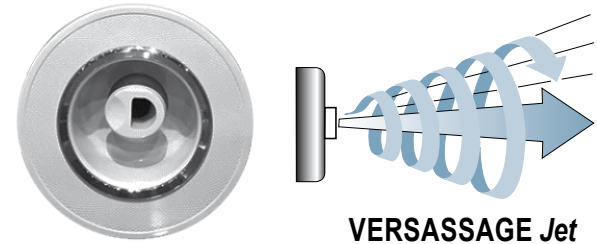
**EURO-PULSE Jets** - The **EURO-PULSE** jets feature a special insert that creates a soft, pulsating, rotary massage.

**NOTE:** Please do not attempt to rotate the jet face on either the Euro Directional, or EURO-PULSE as these jets do not regulate the force of the massage.



**VERSASSAGE Jets** - These jets may be adjusted to provide either a stationary, direct stream or, by positioning the nozzle to one side or the other, a rotating jet stream.

The **VERSASSAGE** jets allow you to regulate the force of the massage. Rotate the fascia ring counter-clockwise to reduce the force, or clockwise to increase the force. Notice that turning off the flow to some jets increases the flow to the other jets. To avoid damage to your spa's plumbing and components, do not turn off more than half of these jets at the same time. For cleaning instructions, see the **VERSASSAGE** Jets Maintenance section.



**ORBISSAGE Jets** - This jet provides a unique, pulsating massage. The flow is adjustable in that it can be turned completely off or on (by rotating the jet faceplate). It is also interchangeable with the **VERSASSAGE** jet. For cleaning or replacement instructions see **VERSASSAGE** Jets in the Spa Care and Maintenance section.



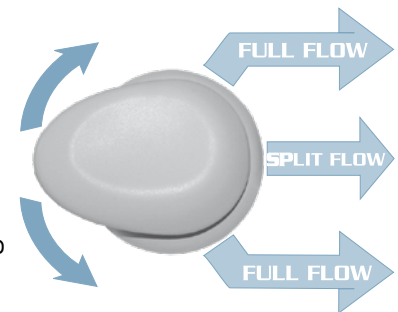
## DIVERTER VALVES

The diverter valves on your spa allow you to direct the flow of water from the pumps to various combinations of jets. The functions of these diverter valves can best be learned by experimentation as follows:

Set all air controls to the "ON" position.

Turn on both pumps.

Turn the handle on each diverter valve and see which groups of jets are affected. (Note that you can adjust the diverter valves to any position between the two possible extremes to achieve the jet pressure that feels best to you.)



**IMPORTANT:** Your spa is not designed to provide full power to all jets when the diverter valves are in the "mid" position. However, with the diverter valve in this position, you may increase the power to selected jets by rotating the face of the **ADAPTAFLO** and **ADAPTASSAGE** jets to close the ones that are not in use.

**TIP:** Turn both pumps on and place the diverter valves to the "Mid-Position". Then experiment with each of the air controls to see their effect.

## ACQUARELLA WATERFALL VALVE

Your spa is equipped with the **ACQUARELLA** waterfall feature. It is activated by turning on Jet Pump 2 (either low or high speed). The flow is regulated by turning the waterfall valve on the inside wall of the spa.



## AIR CONTROLS

Each jet system has its own air control. These allow you to change the power of the jets by regulating the amount of air that is mixed with the water coming out of the jets.



## ATLAS NECK JET VALVE

The **CALDERA** spas are equipped with 4 directional neck jets located in the EcstaSeat™. The flow of the neck jets is regulated by turning the **ATLAS** NeckJet valve on the inside wall of the spa.

## CALDERA LOGO LIGHT

The **CALDERA** logo on the front of the spa illuminates an orange and gray color. These colors indicate the power and ready status of the spa without having to open the cover to look at the control panel.



**Orange Indicator:** The ORANGE indicator will light when the spa water temperature is within 1°C of the set temperature, and will turn off when the temperature is outside of that range. If you increase or decrease the temperature setting of the spa, the ready indicator will turn off until the water temperature reaches the acceptable range for the new temperature setting. A flashing ORANGE indicator means a problem may exist with the temperature sensor (see Troubleshooting section for more information).

**Gray Indicator:** The GRAY indicator is 'on' when the spa is properly supplied with power. It also provides a diagnostic function—a flashing GRAY indicator indicates that the heater high limit has tripped, meaning that either the spa water is above its acceptable temperature range, or a malfunction has occurred within the spa (such as low circulation due to clogged filters). An 'off' GRAY indicator means that there is a problem with the spa control box or the power supplied to the spa (see Troubleshooting section for more information).

## QUICK START-UP INSTRUCTIONS

### BEFORE YOU FILL YOUR SPA

Make sure your spa has been properly installed per all local codes, this includes the location of the spa, the foundation of the spa as well as the electrical installation of the spa. Installation instructions in the form of a Pre-Delivery Instruction booklet can be obtained from either your **CALDERA** dealer or online.

### DO:

- Know which water treatment system you will be using and make sure you have necessary chemicals available. Read all of the instructions that come with the system.
- Have **MONARCH** 5-way Test Strips Available.
- Have pH/Alkalinity Up & Down available.
- Know the "Hardness" of your water, contact your dealer to help you with this information. See Water Quality and Maintenance for more information.
- **IMPORTANT: WATKINS WELLNESS** does not recommend that the spa be filled with "softened" water, as this may damage the spa's equipment.
- Purchase the Clean Screen™ pre-filter to remove unwanted contaminants from the tap water. This is recommended, not required.

### DON'T:

- Power up the spa until it has been filled with water! Power to the spa automatically activates critical components within the spa, such as controls, heater, circulation pump, and other systems. If power is supplied to these components prior to the spa being filled, the components will be damaged, and this may result in a non-warranty component failure.
- Fill the spa with hot water or cold water with cold water temperature below 10°C (50°F)! Tripping of the high-limit thermostat may result causing your spa to stop functioning.



## START-UP

Your **CALDERA** spa has been thoroughly tested during the manufacturing process to ensure reliability and long-term customer satisfaction. A small amount of water may have remained in the plumbing after testing and, as a result, may have spotted the spa shell or the spa siding prior to delivery. Before filling the spa, wipe the spa shell clean with a soft rag. The following instructions must be read and followed exactly to ensure a successful start-up or refill.

## CAUTIONS

- **DO NOT fill the spa with hot water**, as tripping of the high-limit thermostat may result.
  - **DO NOT CONNECT POWER TO AN EMPTY SPA.** Power to the spa automatically activates critical components within the spa, such as controls, heater, and other systems. If power is supplied to these components prior to the spa being filled, the components will be damaged, and this may result in a non-warranty component failure.
  - **DO NOT** use your spa after filling until all of the steps listed below are completed.
  - **DO NOT** add chlorine if treating your spa with polyhexamethylene biguanide (Biguanide, PHMB, eg. **BAQUASPA**) sanitizer.
  - Before filling your spa for the first time, remove the equipment compartment door and check to ensure that the unions on either side of the pump(s) and heater are hand-tight.
1. **CLOSE DRAIN, remove the filter compartment cover, skimmer basket, weir, and filter.** Fill your spa through the filter compartment using the CleanScreen™ pre-filter that attaches to your garden hose. The water level of your spa should be maintained at a level 2.5 cm (1") above the highest jet in the shell of the spa. Reinstall the filter and then the skimmer basket, and weir once the spa is filled.


**IMPORTANT:** WATKINS WELLNESS does not recommend that the spa be filled with “softened” water, as this may damage the spa’s equipment.

2. **AFTER THE SPA HAS BEEN FILLED** with water and the equipment compartment door is secured, power must be applied to the spa.
  - FIRST activate power to the subpanel from the main house panel.
  - NEXT open the door of the electrical subpanel and reset the GFCI breaker.
  - FINALLY, close and secure the subpanel door.
3. **TO CHECK THE OPERATION OF THE JET SYSTEM** and to purge any remaining air from the heating system complete the following steps:
  - Press the  icon on the Jet screen for each pump to place the jet pumps on High.
  - Once the jet system is fully operational (as indicated by strong, non-surfing jets), priming of the spa is complete
  - To turn off the jets, press the  on the jet screen to turn all functions off simultaneously.
  - If you do not feel a steady stream of water from your jets, refer to the instructions for priming the pump in the SPA TROUBLESHOOTING section.

**IMPORTANT:** Be sure that the diverter is in the middle position.

4. **SET THE TEMPERATURE CONTROL** to the desired temperature between 38°C (100°F) and 40°C (104°F), then place the spa cover on the spa and allow the water temperature to stabilize (approximately 24 hours). Make sure you secure the cover in place using the cover locks. Periodically check the spa water temperature. When the water temperature climbs above 32°C (90°F), proceed to the next step. The spa temperature is pre-programmed to reach 39°C (100°F), and will normally do so within 18 to 24 hours. You may change the water temperature by pressing the temperature on the home screen, then press the ▲ on the screen to raise the temperature, or ▼ to lower the temperature. After a few hours, the water temperature will remain within 1.5°C (3°F) of your selected temperature.
5. **USING A TEST STRIP AND APPLICABLE CHEMICALS** adjust Total Alkalinity (TA) to 40-120 ppm, Calcium Hardness (CH) to 50-150 ppm, then spa water pH to between 7.2 and 7.8. These procedures are listed in the “Water Quality and Maintenance” section.

**OPERATION NOTE:** Adjusting the Total Alkalinity as the first step is important, as out-of balance TA will affect your ability to adjust the pH correctly and will prevent the sanitizer from operating effectively.

**IMPORTANT:** Activate the Clean cycle (Press  on the home screen then Start) before adding spa water chemicals directly into the filter compartment. Make sure all diverter valves are set to the middle position.

6. **SUPERCHLORINATE THE SPA WATER** by adding 1½ teaspoons of **MONARCH** chlorine (sodium dichlor) per 950 liters (250 gallons) of spa water, then activate the Clean cycle.
7. **TEST THE SPA WATER FOR CHLORINE RESIDUAL.** If the residual is between 3 and 5 ppm on the test strips, go on to the next step. If the residual is less than 3 ppm, activate the Clean cycle, add chlorine as needed and then retest.
8. **IF USING FROG INSTALL FROG bromine and mineral cartridges.** Dial the mineral cartridge to setting 6 and snap into the top space of the cartridge holder. Dial the bromine cartridge to setting 3 and snap into the bottom space of the cartridge holder.

**WARNING:** High sanitizer levels can cause discomfort to the user’s eyes, lungs and skin. Always allow the sanitizer level to fall to the recommended range before using the spa.

**IMPORTANT:** Each time the spa is filled with water, you must remove and reinstall the **FROG** cap, even if you are not replacing the cartridge, in order to properly prime the jet pumps.

9. **RECHECK** the Total Alkalinity (TA) 40-120 ppm, Calcium Hardness (CH) 50-150 ppm, then spa water pH at between 7.2 and 7.8.

**OPERATION NOTE:** Make sure you adjust your Total Alkalinity and pH correctly, this will affect the sanitizers effectiveness.

The spa is ready for use when the spa water has circulated and the bromine level remains between 1 and 2 ppm or chlorine level remains between 3 and 5 ppm.

**OPERATION NOTE:** For proper water circulation during the ten-minute Clean cycle the following steps should be performed.

- Place the diverter valve in the middle (split flow) position
- Place air control levers in OFF position by rotating clockwise



# WATER QUALITY AND MAINTENANCE

## BASIC INFORMATION

It's important to have clean water. Water maintenance is one of the least understood, yet most important, areas of spa ownership. Your dealer can guide you through the process of achieving and maintaining balanced water in your spa, given your local conditions.

**IMPORTANT:** Water Terminology can be found at the end of this section.

- **Always read & refer to the owner's manual** for complete information.
- **Test your water** with a test strip once a week, or each time the spa is used.
- **Add chemicals** in frequent small amounts to prevent overdosing the spa.
- **Use the spa only** when the chlorine level is between 1-5 ppm or manually add chlorine as needed.
- **It is the spa owner's responsibility** to prevent over or under chlorination.

**IMPORTANT:** Remember to change your water every three to four months. Check with your **CALDERA** dealer to determine if water in your region has unique qualities - such as high metal or mineral content - that should be addressed.

Your program will depend on your water's mineral content, how often you use your spa, and how many people use it.

**WATER QUALITY CHART**

PARAMETER	TARGET	MIN - "OK" RANGE - MAX	
pH	7.4	7.2	7.8
ALKALINITY	80 ppm	40 ppm	120 ppm
HARDNESS	100 ppm	50 ppm	150 ppm
CHLORINE	3 ppm	1 ppm	5 ppm

Maintaining the water quality and the cleanliness of the filters in your spa is your responsibility. Keeping the spa water balanced prolongs the life of the spa components and will make the water more comfortable. Your dealer can guide you through the process of achieving and maintaining perfect water in your spa, given your local conditions. Your program will depend on your water's mineral content, how often you use your spa, and how many people use it. **WATKINS WELLNESS** has developed several water care systems and products to simplify water care which are available from authorized **CALDERA** dealers.

<b>FROG</b> Water Care System	Vanishing Act™ Calcium Remover
<b>CALDERA MONARCH</b> products	<b>MONARCH</b> 5-way Salt Test Strips
<b>MONARCH</b> System	<b>CLEAN SCREEN</b> Prefilter

## CHEMICAL SAFETY


When using chemicals, read the labels carefully and follow directions precisely. Though chemicals protect you and your spa when used correctly, they can be hazardous in concentrated form. Always observe the following guidelines:

- Allow only a responsible person to handle spa chemicals. Keep them out of the reach of children.
- Accurately measure the exact quantities specified, never more. Do not overdose your spa.
- Handle all containers with care. Store in a cool, dry, well ventilated place.
- Always keep chemical containers closed when not in use. Replace caps on their proper containers.
- Don't inhale fumes, or allow chemicals to come in contact with your eyes, nose, or mouth. Wash your hands immediately after use.
- Follow the emergency advice on the product label in case of accidental contact, or if the chemical is swallowed. Call a doctor or the local Poison Control Center. If a doctor is needed, take the product container along with you so that the substance can be identified.
- Don't let chemicals get on surrounding surfaces or landscaping. Don't use a vacuum cleaner to clean up chemical spills.
- Never smoke around chemicals. Some fumes can be highly flammable.
- Don't store any chemicals in the spa equipment compartment.

## HOW TO ADD CHEMICALS TO THE WATER

**IMPORTANT:** All spa water chemicals (other than **FROG** cartridges), must always be added directly into or in front of the filter compartment while a jet pump is running, and it must run for a minimum of ten minutes.

### TO ADMINISTER SPA WATER CHEMICALS:

1. Fold back the cover and remove the filter compartment cover.
2. To activate the Clean Cycle, press  on the Home Screen and Start on the Clean Screen.
3. Carefully measure the recommended amount of chemical and slowly pour it over the filter basket area. Use care not to splash chemicals on your hands, in your eyes, on the spa sheet surface, or on the siding.
4. Replace the filter compartment cover and close the spa cover.  
**Risk of Drowning:** Never leave an open spa unattended!

**⚠ WARNING:** High sanitizer levels can cause discomfort to the user's eyes, lungs and skin. Always allow the sanitizer level to fall to the recommended range before using the spa.

**IMPORTANT "SUPER CHLORINATION/NON-CHLORINE SHOCK TREATMENT" NOTE:** After administering a super chlorination treatment or non-chlorine shock to your spa, leave the cover open for a minimum of 20 minutes to allow the oxidizer gas to vent. A high concentration of trapped oxidizer gas which may exist as a result of the shock treatment (not daily sanitation) may eventually cause discoloration or vinyl degradation to the bottom of the cover. This type of damage is considered chemical abuse and is not covered under the terms of the limited warranty.

# FUNDAMENTALS OF WATER MAINTENANCE

- **Testing:** Test the water weekly or each time the spa is used with convenient 5-way test strips or more accurate liquid/tablet reagent test kit per instructions. Critical parameters: sanitizer level, pH, Calcium Hardness (CH), and Total Alkalinity (TA). Store test equipment in a dark, cool, dry place to maintain potency.
- **Water Filtration:** The filtration used in **CALDERA** spas helps keep water clean by circulating sanitizer and removing waste from the spa. Regularly inspect and clean filters for peak performance.
- **CALDERA** spas provides the best approach to keeping water clean by constantly circulating sanitizer and removing waste from the spa. Regularly inspect and clean filters for peak performance.
- **Chemical Balance/pH Control:** It is important to adjust the primary water parameters (Total Alkalinity, Calcium Hardness, pH) into the recommended ranges so that they are stabilized or balanced. Balance the water chemistry every time you fill the spa with new water and then during the life of that body of water. Keeping the water in balance prevents damage by holding the pH in a safe range and preventing calcium scale formation on spa equipment. A low pH can damage metal components whereas a high pH can cause high levels of calcium to form scale. Your dealer should provide a detailed water chemistry orientation soon after your new spa is filled for the very first time.
- The following three water components must be kept in balance to avoid damage to the spa. Do balance these components in the order they are listed here as each will help you balance the next using a minimum amount of chemicals.
  1. Calcium Hardness (CH) – CH is the measure of the amount of dissolved calcium in the water. Low levels can make the water corrosive and high levels cause scale formation of spa components. The recommended CH reading is between **50 - 150 ppm**. If the CH level is too high, lower it with the **VANISHING ACT** calcium remover per instructions. Once in balance, the CH reading normally remains stable until new water is added. Great care must be taken when filling the spa from a water softener to ensure that the calcium remains in balance and avoid damage to the spa.
  2. Total Alkalinity (TA) - TA is a measure of the water's ability to resist changes of pH or buffer capacity. A low TA allows the pH to fluctuate easily. The recommended TA reading is between **40 - 120 ppm**. To raise the TA, use **MONARCH** pH/Alkalinity Up (sodium hydrogen carbonate). To lower the TA, use pH/Alkalinity Down (sodium bisulfate). Once the TA is balanced, it normally remains stable until the next drain/refill. We recommend you check the TA reading once per month. Raising/lowering the TA may cause the pH readings to fluctuate widely. Ignore the pH readings on the test strip while you are balancing the TA.
  3. pH - The pH is the measure of the acidity and alkalinity. Maintaining the proper pH level will optimize the effectiveness of the sanitizer, preventing damage to the spa and physical discomfort

ALKALINE SPA WATER (SCALING ZONE)	8.2	ADD pH DECREASER TO LOWER pH
	7.8	
COMFORT ZONE	7.6	IDEAL
	7.4	
	7.2	
ACIDIC SPA WATER (CORROSIVE ZONE)	6.8	ADD pH INCREASER TO RAISE pH
	pH	

for spa users. A low pH dissipates sanitizer, causes corrosion, and irritates spa users. A high pH level will neutralize sanitizer, promote scaling and cloud water. The recommended pH reading is between **7.2 - 7.8**. To lower the pH level, use **MONARCH** pH/Alkalinity Down (sodium bisulfate). To raise the pH level, use pH/Alkalinity Up (sodium carbonate).

- **Water Conditioners:** Spa fill water varies from location to location and user to user, therefore it is important to consult with your dealer for an appropriate program.
  - a. **VANISHING ACT** – High levels of calcium and some minerals can be removed from the water with the single use **VANISHING ACT**. High calcium levels can cause scale formation on the spa equipment and shell.
  - b. **CLEAN SCREEN** pre-filter –The **CLEAN SCREEN** pre-filter should be used at every fill and top-off to remove contaminants from the fill water, especially iron, copper, and manganese. Many water sources including well water contain high concentrations of minerals that can cause staining of the shell and plastics.
  - c. Stain and Scale control – For water high in calcium and minerals, it may be necessary to use an anti-scalant like Stain and Scale control. As water evaporates from your spa and new water is added, the amount of dissolved minerals like calcium, copper, iron, and manganese will increase. (Minimize evaporation by keeping the cover on the spa whenever possible.) High iron or copper content in the water may produce green or brown stains on the spa.
  - d. Foam Inhibitors - Soap is introduced into the spa water from users' bodies and swimming apparel and can cause the spa water to foam when the jets are used. Low levels of calcium hardness (soft water) can increase foaming. Although ozone can oxidize soap residual, it may become necessary to add Foam Inhibitors to suppress the foam. Excessive soap in the water may require a water change to resolve.
- **Oxidizers:** Ozone and Monopersulfate (MPS) are oxidizers used to prevent the buildup of contaminants, maximize sanitizer efficiency, minimize combined chlorine, and improve water clarity. They are to be used in conjunction with EPA registered sanitizers. The **MONARCH** III high output ozone system uses Corona Discharge technology to produce a high concentration of ozone which is injected into the spa water 24 hours per day. Chlorine-Free Oxidizer, Monopersulfate (MPS) is a granular oxidizing chemical.
- **Sanitizers:** Maintaining the recommended residual level of a national registered sanitizer at all times will decrease the occurrence of unsafe bacteria and viruses in your spa water. The recommended Free Available Chlorine (FAC), the amount of available chlorine sanitizer, is **3.0-5.0 ppm**. A low FAC can allow bacteria and viruses to grow rapidly in the warm water, and a high FAC can cause discomfort to the user's eyes, lungs, and skin. Each sanitizer carries its own instructions regarding how much to use and when to add it to the spa water. Consult your dealer for their recommendations and instructions on proper sanitizing of the spa.

**WATKINS WELLNESS** recommends the following sanitizer:

- **FROG** sanitizing system (mineral and bromine)

**WATKINS WELLNESS** also approves the following sanitizers:

- Sodium Dichloro-s-Triazinetrione (sodium dichlor or chlorine)
- Biguanide

**WARNING:** DO NOT use tri-chlor chlorine, bromo-chloro-dimethyl-hydantoin (BCDMH), or any type of compressed bromine or chlorine, acid or any type of sanitizer which is not recommended by **WATKINS WELLNESS**.

## FROG WATER CARE SYSTEM

The **FROG** Water Care system is comprised of the following two products:

**THE FROG MINERAL CARTRIDGE.** This cartridge introduces minerals into the spa water, inhibiting bacteria growth.

**THE FROG BROMINE CARTRIDGE (BCDMH).** The only recommended sanitizer that will work in conjunction with the **FROG** Mineral cartridge.

It is important that in addition to regularly testing and balancing your spa water, a weekly "shock treatment" is required. The shock treatment quickly destroys any remaining contaminants while revitalizing the bromine in the water.

To weekly "shock treat" your spa, we recommend that you use either **MONARCH MPS Plus** or sodium dichlor (chlorine). Sodium dichlor may be a more appropriate weekly shock for those users that experience heavy bather load conditions.

The following optional products can be used in conjunction with the **FROG** Water Care system:

**MONARCH MPS PLUS NON-CHLORINE SHOCK (MPS/ Monopersulfate)** is an oxidizing chemical used to prevent the buildup of contaminants, maximize sanitizer efficiency, and improve water clarity. When used in conjunction with the **FROG** system it oxidizes particulates in the spa water.

**IMPORTANT NOTE:** *MONARCH MPS Plus is an oxidizer, not a sanitizer.*

**MONARCH CORONA DISCHARGE (CD) OZONE** is a high output ozone system and is the only ozone purification system approved for installation in your **CALDERA** Spa. The **MONARCH** ozone system utilizes CD technology to produce a **higher concentration of ozone than is produced by a competing** chip style CD or ultraviolet light ozone systems.

**NOTE:** Refer to the Start-Up instructions on page 4 of your **FROG** owner's manual for start-up and operation instructions. The owner's manual can be found with your **FROG** starter kit.

It is important to follow the recommended application and maintenance programs outlined for each product's use. If the spa is being used over an extended period or time, such as a whole afternoon or evening, additional sanitizer will be needed.

**NOTE:** The **FROG** Mineral Cartridge is not approved for use in Canada.

**NOTE:** For Canada, if you are only using the bromine cartridge, your bromine levels should be between 3.0 - 5.0 ppm.

## FROG CARTRIDGE REPLACEMENT INSTRUCTIONS

The **FROG** bromine cartridge should be replaced every 2-4 weeks, depending on User Load. The **FROG** mineral cartridge should be replaced every 4 months. When replacing the mineral cartridge, it is highly recommended that the spa be drained and refilled at the same time. After refilling the spa with water, balance the Total Alkalinity (TA), Calcium Hardness (CH) and pH to the recommended levels. Shock the spa by adding **MONARCH MPS Plus** non-chlorine shock or sodium dichlor (chlorine).

To replace **FROG** cartridges, follow these steps:

1. Turn off power to the spa.
2. Unscrew **FROG** cap on top edge of spa.
3. Turn handle counter-clockwise.
4. Lift cartridge holder up and out of spa.
5. Remove and discard old cartridges.
6. Turn top cap of new Mineral cartridge to setting #6 (evaluate water in 1 week and adjust as necessary).
7. Turn top cap of new bromine cartridge to setting #6 (measure bromine with bromine Test Strip in 1 week and adjust as necessary).
8. Snap bromine cartridge into the bottom of holder and snap mineral cartridge into the top.  
**IMPORTANT:** It is important that the bromine cartridge is on the bottom; otherwise, the bromine cartridge could dispense prematurely.
9. Reinstall cartridge holder into spa, push down, and twist clockwise.
10. Replace **FROG** cap.
11. Reconnect power to the spa.

**IMPORTANT NOTE:** *Adjust bromine cartridge setting down by one setting each day until a residual of 1.0 - 2.0 ppm level of bromine is established.*

**WARNING:** *High sanitizer levels can cause discomfort to the user's eyes, lungs and skin. Always allow the sanitizer level to fall to the recommended range before using the spa.*

## THE CALDERA SPA WATER MAINTENANCE PROGRAM

### FILLING THE SPA WITH WATER

Use the **CLEAN SCREEN** pre-filter to remove unwanted contaminants such as rust, dirt, detergents, and algae from the fill water. Dissolved metals, copper, iron, and manganese are also removed. Instructions are included with the **CLEAN SCREEN** pre-filter. Always fill the spa through the filter compartment. Do not fill your spa using water from a swimming pool as pool chemicals are very different from those used in a spa and can damage your spa.

### ADDING CHEMICALS TO THE WATER

All spa water chemicals, including granulated dichlor, MPS, granulated pH increaser or decreaser, granulated total alkalinity increaser, liquid stain and scale inhibitor, and liquid defoamer must always be added directly into the filter compartment while the jet pump is running in its high speed mode, and it must run for a minimum of ten minutes with the cover off. Use the Clean icon feature to ensure that the chemicals are properly mixed when adding.

### BUILDING A SANITIZER ROUTINE


During the first month of ownership, measure the sanitizer residual daily in order to establish a baseline of sanitizer needed vs. spa usage. Sanitizer needed is the amount of Free Available Chlorine needed to accommodate the number of users and their combined usage time. For example, two spa users for twenty minutes every day creates regular demand on the sanitizer that is used to determine how much sanitizer to add in order to maintain the proper residual. If the usage pattern increases dramatically with invited guests, the amount and frequency of sanitizer required increases dramatically.



## PERFORMING SUPER CHLORINATION/ NON-CHLORINE SHOCK TREATMENT

A weekly or monthly super chlorination (1.5 tsp dichlor/950 liters) or shock (4tbs mps/950 liters) may be required of your chosen sanitation program. Increasing chlorine to 5 ppm for 24-48 hours removes excess waste and chloramines from the water. Sodium dichlor is 6x stronger than MPS and may be a more appropriate for those users that experience heavy bather load conditions. Operate all jets and leave the cover open for a minimum of 20 minutes to allow the oxidizer gas to vent to prevent damage and discoloration to the cover and pillows after administering a super chlorination or shock to your spa. This type of damage is considered chemical abuse and is not covered under the terms of the limited warranty.

**IMPORTANT:** Always allow the Free Available Chlorine to fall below 5 ppm before using your spa.

 **DANGER:** Never leave an open spa unattended, especially if there are children present!

## MONARCH WATER CARE SYSTEM (OPTIONAL)

The **MONARCH** water care system is comprised of the following products:

- **CLEAN SCREEN** Pre-filter
- Concentrated Chlorinating Granules, Sodium Dichlor
- Chlorine-Free Oxidizer, Monopersulfate (MPS)
- High output ozone system (included with spa)
- Silver Ion purifier (can not be used with FROG System)

The system introduces silver ions into the spa water via erosion of silver infused beads which inhibits bacteria growth. When combined with MPS, or chlorine, waste is oxidized and removed from the water. It is important to follow the recommended application and maintenance programs outlined for each product's use. If the spa is being used over an extended period of time, such as a whole afternoon or evening, additional sanitizer will be needed.

Required: Weekly Super Chlorinate/Shock the spa to reactivate the silver ion cartridge, allow the release of silver ions, and quickly destroy any remaining contaminants. Without this weekly shock treatment, the silver ion cartridge may stop releasing silver ions into the water.

**IMPORTANT:** Use only Dichlor sanitizer. Silver is not compatible with bromine and biguanides. Don't use a water clarifier. Clarifiers will cause the spa water to become cloudy.

## MANUAL CHLORINE (SODIUM DICHLOR)

**WATKINS WELLNESS** recommends the use of **MONARCH** Concentrated Chlorinating Granules (sodium dichlor) for sanitizing the water. Sodium dichlor is preferred because it is totally soluble, dissolves quickly, and is nearly pH neutral. The recommended Free Available Chlorine (FAC), the amount of available chlorine to sanitize the spa, 3.0-5.0 ppm.

**If the FAC is too low:** Increase the FAC by adding granulated sodium dichlor.


**If the FAC is too high:** Allow time to pass and the FAC level will naturally drop over time.

**If the spa smells of chlorine:** super chlorinate or shock the spa. FAC chlorine does not have an odor whereas combined spent chlorine (chloramines) has a strong chlorine odor that can be eliminated by shocking the water.

**IMPORTANT:** There are several forms of stabilized chlorine available for use in spas and swimming pools. It is extremely important to choose one specifically designed for spas. Use of an incorrect product such as tri-chlor which has a very low pH (2.6) and dissolves too quickly in hot water, results in extremely high levels of chlorine that **WILL** cause damage to your spa. Use of a liquid or compressed bromine/chlorine or unapproved sanitizer **WILL** damage your spa and is specifically not covered under the terms of the limited warranty.

## MONARCH OZONE MAINTENANCE

If Reduced or no ozone bubbles are coming from the heater return (clogged ozone injector) or no ozone, clean the injector:

 **DANGER:** Nitric acid accumulates in the air lines of the ozonator and injector, and will cause severe chemical burns if direct skin contact is made. Always wear protective gloves, glasses and clothing when working on the ozonator or injector lines. To prevent inhalation or ingestion of the nitric acid, DO NOT blow or inhale with your mouth to any of the adapters, fittings or tubing of the ozonator or injector air lines.

1. Place 0.5 liter of white vinegar into a cup or bucket.
2. Carefully loosen the long tubing attached to the bottom of the ozonator, located in the equipment compartment.
3. Place the end of the tubing into the vinegar, making certain that the end of the tubing sits at the bottom of the container.
4. Run the spa until all 0.5 liter of the vinegar are gone. This should allow an ample flow of vinegar to be run through the injector and clear the blockage.
5. Reinstall the tubing to the bottom of the ozonator.

Water chemistry damage is not covered by the warranty. The chemical levels and water quality in the spa are under your direct control. With proper basic care, the spa will provide many years of hot water relaxation. If you are unsure about any chemical or its usage in the spa, contact your Authorized Dealer, or **WATKINS WELLNESS**.

### DO:

- Add all chemicals slowly into the filter compartment with the jet pump operating for ten minutes.
- Use special care if using baking soda to clean either the interior or exterior plastic surfaces.

**IMPORTANT: WATKINS WELLNESS DOES NOT** recommend the use of any floating chemical dispenser. Damage to the spa shell or components caused by a floating chemical dispenser is specifically not covered under the terms of the limited warranty. Floating dispensers can become trapped in one area and cause an over-sanitization or release large chunks of sanitizer that very quickly chemically burn the shell and cover.

### DON'T:

- Use compressed sanitizers.
- Use a floater type sanitization system as a low or no maintenance solution to your spa maintenance program.
- Use a sanitizer which is not designed for spas.
- Use swimming pool (muriatic) acid to lower pH.
- Use household bleach (liquid sodium hypochlorite).
- Broadcast or sprinkle the chemicals onto the water surface. This method may cause chemically-induced spa surface blistering (chemical abuse).

# VACATION WATER CARE

## INSTRUCTIONS

If you plan to be away from home, follow these instructions to ensure that the water quality of your spa is maintained:

### SHORT TIME PERIODS (3-5 DAYS):

1. Adjust the pH by following the instructions outlined in the Water Quality and Maintenance section.
2. Sanitize the water by following the shock procedures also listed in the Water Quality and Maintenance section.
3. Lock your cover in place using the coverlocks.
4. Upon your return, sanitize the water by following the shock procedures, and balance the pH.

### LONG TIME PERIODS (5-14 DAYS):

#### Prior to leaving:

1. At least one day before you leave, set the temperature to its lowest level. This setting should represent an approximate water temperature of 27°C (80°F)

**IMPORTANT:** Spa water oxidizers such as sodium dichlor (chlorine) maintain their level of effectiveness substantially longer in warm water 27°C (80°F) than in hot water 38°C - 40°C (101°F to 104°F).

2. Adjust the pH as required. Sanitize the water by following the shock procedures.

#### Upon your return:

3. Sanitize the water by following the shock procedures. Return the set temperature to its original setting. The spa water will be safe for you to use once the Free Available Chlorine residual level has dropped below 5.0 ppm.

**IMPORTANT:** If you will not be using your spa for an extended period of time (in excess of 14 days) and an outside maintenance service (or neighbor) is not available to assist with the water maintenance, draining or winterizing of the spa is recommended.

## SUPPLEMENTAL WATER MAINTENANCE

Proper water sanitation and mineral balance (pH control) are absolutely essential for a complete spa water maintenance program. Here are two other popular water additives that are optional:

### Mineral Deposit Inhibitors

As water evaporates from your spa and new water is added, the amount of dissolved minerals will increase. (Minimize evaporation by keeping the cover on the spa whenever possible.) The spa water may eventually become "hard" (Calcium Hardness too high) enough to damage the heater by calcifying its surface. Proper pH control can minimize this.

Normal soap build-up will require water replacement regularly enough that mineral deposits normally are not a problem.

Occasionally, high iron or copper content in the water may produce green or brown stains on the spa. A stain and scale inhibitor may help to reduce these metals.

**IMPORTANT:** Well water may contain high concentrations of minerals. The use of a low water volume, extra-fine pore water filter (in-line pre-filter such as the **CLEAN SCREEN** pre-filter) will help to remove many of the larger particles during the filling of the spa. In-line pre-filters can be purchased at your local **CALDERA** dealer.

### Foam Inhibitors

Spa water requires changing due to the buildup of soap in the water. Typically, soap will cause the spa water to foam when the jets are used. Soap is introduced into the spa water from two sources: users' bodies, which retain a soap residual after showering, and swimming apparel, which retains soap after washing.

Foam inhibitors can suppress foam, but cannot remove soap from the water. Soap is very difficult to remove from the water because soap is not oxidized by any chemical added to the spa. Only ozone can oxidize soap. Eventually the soap build-up in the water will be concentrated, resulting in an unclear feeling on the bather's skin, which is impossible to remedy. When this occurs, it's time to drain and refill the spa. Depending on the soap input, the water should last about four months before needing to be drained.

## GLOSSARY

The following chemical terms are used in this Water Quality and Maintenance section. Understanding their meaning will help you to better understand the water maintenance process.

**Bromamines:** Compounds formed when bromine combines with nitrogen from body oils, urine, perspiration, etc. Unlike chloramines, bromamines have no pungent odor, and are effective sanitizers.

**Bromine:** A halogen sanitizer (in the same chemical family as chlorine). Bromine is commonly used in stick, tablet, or granular form however, stick and tablet form should NOT be used.

**Calcium Hardness:** The amount of dissolved calcium in the spa water. This should be approximately 50 -150 ppm (**ACE:** 25 – 75 ppm). High levels of calcium can cause cloudy water and scaling. Low levels can cause harm to the spa equipment.

**Chloramines:** Compounds formed when chlorine combines with nitrogen from body oils, urine, perspiration, etc. Chloramines can cause eye irritation as well as having a strong odor. Unlike bromamines, chloramines are weaker, slower sanitizers.

**Chlorine:** An efficient sanitizing chemical for spas. **WATKINS**

**WELLNESS** recommends the use of sodium dichlor-type granulated chlorine. This type is preferred because it is totally soluble and nearly pH neutral.

**Chlorine (or Bromine) Residual:** The amount of chlorine or bromine remaining after chlorine or bromine demand has been satisfied. The residual is, therefore, the amount of sanitizer which is chemically available to kill bacteria, viruses and algae.

**Corrosion:** The gradual wearing away of metal and plastic spa parts, usually caused by chemical action. Generally, corrosion is caused by low pH or by water with levels of TA, CH, pH or sanitizer which are outside the recommended ranges.

**Halogen:** Any one of these five elements: fluorine, chlorine, bromine, iodine, and astatine.

**MPS:** Monopersulfate is a non-chlorine oxidizer.

**Nitric Acid:** The formulation of nitric acid, a highly corrosive chemical, is a byproduct of the ozone generating process. Nitric acid is produced in very small quantities and is readily dissolved in the water stream with ozone.

**Oxidizer:** The use of an oxidizing chemical is to prevent the buildup of contaminants, maximize sanitizer efficiency, minimize combined chlorine and improve water clarity. See MPS and Ozone.

**Ozone:** Ozone is a powerful oxidizing agent which is produced in nature and artificially by man. Ozone forms no byproducts, oxidizes chloramines, and will not alter the water's pH.

**pH:** The measure of the spa water's acidity and alkalinity. The recommended pH for the spa water is 7.2 to 7.8. Below 7.0 (considered neutral), the spa water is too acidic and can damage the heating system. Above 7.8, the water is too alkaline and can result in cloudy water, and scale formation on the shell and heater.

**ppm:** The abbreviation of "parts per million", the standard measurement of chemical concentration in water. Identical to mg/l (milligrams per liter).

**Reagent:** A chemical material in liquid, powder, or tablet form for use in chemical testing.

**Sanitizer:** Sanitizers are added and maintained at recommended residuals to protect bathers against pathogenic organisms which can cause disease and infection in spa water.

**Scale:** Rough calcium-bearing deposits that can coat spa surfaces, heaters, plumbing lines, and clog filters. Generally, scaling is caused by mineral content combined with high pH. Additionally, scale forms more readily at higher water temperatures.

**Super-Chlorination:** Also known as "shock treatment." Super-Chlorination is a process of adding significant doses of a quick dissolving sanitizer ("dichlor" is recommended) to oxidize non-filterable organic waste and to remove chloramines and bromamines.

**Total Alkalinity (TA):** The amount of bicarbonates, carbonates, and hydroxides present in spa water. Proper total alkalinity is important for pH control. If the TA is too high, the pH is difficult to adjust. If the TA is too low, the pH will be difficult to hold at the proper level. The desired range of TA in spa water is 40 to 120 ppm.



# OPERATING INSTRUCTIONS

## MAIN CONTROL PANEL

The main control panel features a full color LCD touchscreen that provides a quick visual check of the spa's status and allows the user to set the temperature, activate the jets & lights, lock the temperature and/or spa functions. Other optional functions may also be available depending on the spa model and accessory equipment that has been installed into the spa.



**When activating a function or feature, press with a light but distinctive touch, the function or feature will activate as your finger is removed from the touchscreen.**

**IMPORTANT:** Never press down on the screen with any part of your body especially when entering or exiting the spa because it will damage the screen.



## HOME SCREEN

The Home screen is the default screen. The temperature displayed inside the Home screen is the actual temperature of the spa water.



Home Screen Functions:		
	Power	Press this icon to turn jets on high and all lights on blue if both are currently off, or will turn all jets, lights, and music off if those features are currently on.
	Memory Screen	Press this icon to access the Memory screen.
	Clean Cycle	Press this icon to access the Clean Cycle screen. Icon will flash when Clean Cycle is on.
	Settings Screen	Press this icon to access the first Settings screen.

Home Screen Features		
	Jets	Press this icon to access the Jets Control screen.
	Music	<i>If installed</i> , press this icon to access the first Music screen.
	Lights	Press this icon to access the first Lighting screen.

Status Indicators		
	Summer Timer or Auto Clean	This indicator is on whenever the Summer Timer is ON or Auto Clean is activated.
	Spa/Temp Lock	This indicator is on whenever the Spa Lock or Temperature Lock is ON.
	Invert Screen	Press this indicator to invert the screen.

Working Screen Icons		
	Home Icon	Press to return to the Home screen.
	Return Icon	Press to return to the previous screen.
	Advance Icon	Press to advance to the next screen.

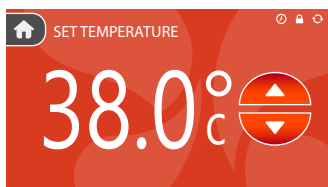
## CARE OF YOUR SCREEN:

Use only a clean microfiber cloth and water to clean your LCD screen. Abrasive cloths, towels, paper towels, and similar items may cause damage to the screen. Don't use around aerosol sprays, solvents, or abrasives.

## TEMPERATURE CONTROL

38.0°C

Press the actual temperature on Home screen to display Set Temperature screen.



The set temperature range is from 26°C to 40°C (80°F to 104°F).

**NOTE:** The water temperature may vary depending on the current use and condition of your spa and outside temperatures.

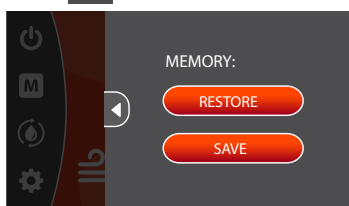
The factory set temperature of the spa water is 38°C (100°F).

The last temperature value set by the user will be stored in memory. If power is disconnected from the spa, it will automatically revert to the last set temperature when power is reapplied.

- ▲ Press to raise set temperature of spa. Press and hold to raise the temperature continuously.
- ▼ Press to lower set temperature of spa. Press and hold to lower the temperature continuously.

## MEMORY SCREEN

Press **M** on Home screen to display Memory screen.



Press to activate the last saved set of operating functions.



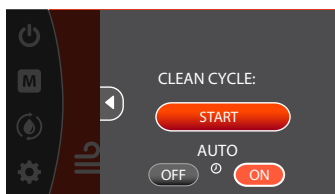
Press to save the current set of operating functions (jets and lights only).



Press to return to home screen if neither of the above buttons are used. Screen will automatically revert back after 10 seconds of non activity.

## CLEAN CYCLE SCREEN

Press **CC** on Home screen to display Clean Cycle screen.



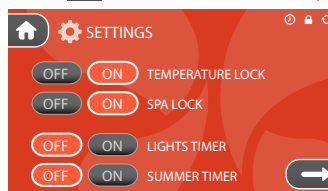
Press & hold to activate and deactivate the Auto Clean Cycle. If activated, a clean cycle will run every 24 hours starting at the time ON was first pressed (runs Jet 2 for 1 minute and Jet 1 for 9 minutes)



Press to return to Home screen. Screen will automatically revert back after 10 seconds of non activity.

## SETTINGS SCREENS

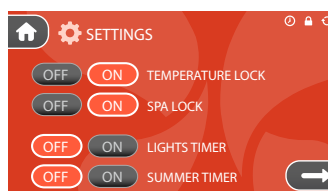
Press **⚙** on Home screen to display first Settings Screen.



The first Settings screen allows you to turn Temperature Lock, Spa Lock, Lights Timer and Summer Timer On or Off.

### TEMPERATURE LOCK

Press **⚙** on Home screen to display Temperature Lock.



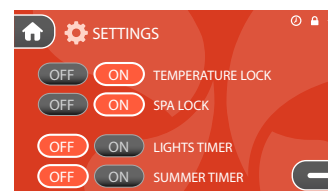
The Temperature Lock feature prevents changing the desired water temperature setting. All other control panel functions will operate normally while the Temperature Lock is "ON".



Press and hold ON or OFF for **approximately 4 seconds** to activate or deactivate.

### SPA LOCK

Press **⚙** on Home screen to display Spa Lock.



When activated, the Spa Lock feature disables all functions on the control panel.

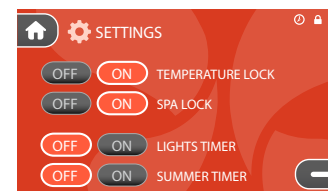
The control panel will not respond to anything except **⚙** on the Home screen.



Press and hold ON or OFF for **approximately 4 seconds** to activate or deactivate.

### LIGHTS TIMER

Press **⚙** on Home screen to display Lights Timer.



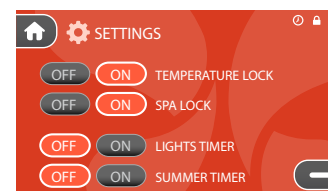
When activated, the exterior lights of the spa will come on 5 seconds later will remain lit for 6 hours and repeat the cycle every 24 hours from activation time.



Press ON or OFF to activate or deactivate.

### SUMMER TIMER



Press **⚙** on Home screen to display Summer Timer.



- The Summer Timer can be activated during extremely hot summer months to help maintain set water temperatures.

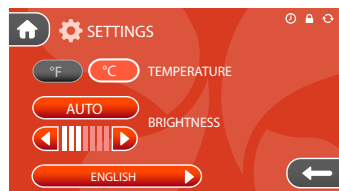
- Activating the Summer Timer causes the heater to immediately shut down. The circulation pump will remain on for approximately 5 minutes pushing water through the heater to cool it down.

- Both heater and circulation pump will remain off for eight hours. The circulation pump and heater will automatically shut down for the same eight hours every day until the Summer Timer is deactivated.
- It is recommended to activate the Summer Timer in the morning so that the spa is off during the hottest part of the day and so that the circulation pump will start up again in the evening when you are ready to enjoy the spa.

  SUMMER TIMER Press ON or OFF to activate or deactivate.

## TEMPERATURE °C/ °F SETTING



Press  on Home screen to display first Settings screen, then press  to display Temperature in second Settings screen.

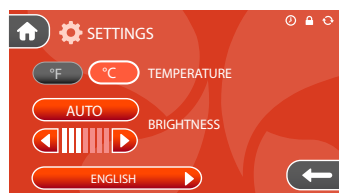



Press °C or °F to activate either Celsius or Fahrenheit temperature.





## SCREEN BRIGHTNESS

Press  on Home screen to display first Settings screen, then press  to display Brightness in second Settings screen.



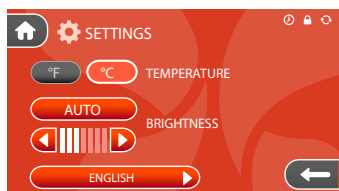
 Press to activate the auto brightness feature, a sensor will automatically adjust the LCD to the ambient lighting conditions.




Press  or  to turn AUTO brightness off and manually increase or decrease the brightness of the remote's screen. Press and hold either arrow to continuously change the brightness setting.

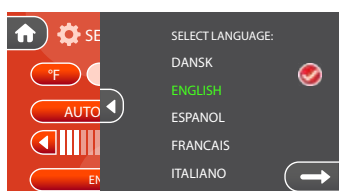
## LANGUAGE


Press  on Home screen to display first Settings screen, then press  to display Brightness in second Settings screen.



The control panel screens can be viewed in different languages (ENGLISH illustrated).

 Press to display Select Language screen.



**NOTE:** Press  to see more languages. Press and hold on the new desired language until it turns green.



Press to start the conversion process. The conversion is finished once the Home screen reappears.




Press to return to second Settings screen if check mark icon is not pressed. Screen will automatically revert back after 10 seconds of non activity.

## JETS CONTROL SCREEN

Press  on the Home screen to display the Jets screen.



**NOTE:** If jets are off when  is pressed on the Home screen, low speed jet pump will turn on.

Your screen may look different depending on how many jet pumps your spa has.

The Jet pump icon (on home page) will remain displayed until a button is pressed to turn off the jet pump(s), or after one hour of continuous operation when the pump(s) is automatically shut off by the control system.

The jet pump(s) will turn themselves off after one hour of continuous operation to prevent overheating and conserve energy. The jets can be restarted again with no delay.



Press to turn Jet pump off.



Press to turn Jet pump on low speed.




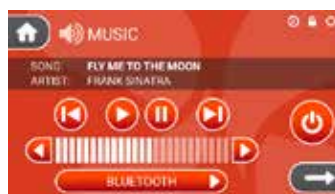
Press to turn Jet pump on high speed.



Press to turn ALL jet pumps off (if on) or all to High speed (if off).

## MUSIC SYSTEM SCREEN (OPTIONAL)

Press  on the Home screen to access the Music System screen.



The Music icon will only display on the Home screen if your spa has the Music System installed.



Press to turn the Music system ON or OFF.



The primary Music screen will display a music player with volume control and a Music Source selection box.

**NOTE:** When the Music system is turned Off there is an 8 second delay before Music system may be turned back ON.



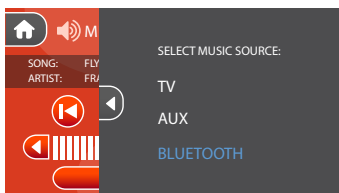
The player functions consist of Track Down, Play, Pause and Track Up



Press  or  to decrease or increase the volume.



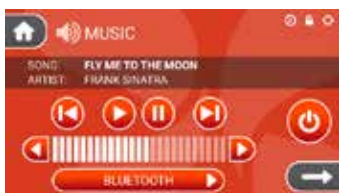
Press to display the Select Music Source screen.



Press on the new desired Music source.

- TV** This source requires a spa TV only available from your **CALDERA** dealer.
- AUX** Source from a line level audio input
- BLUETOOTH** This source will work with any Bluetooth device. Find **My Spa BTXR** on your Bluetooth device when pairing to spa (see pairing information below).

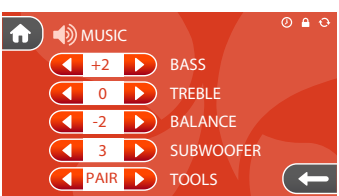
Press to return to Primary Music screen. Screen will automatically revert back after 10 seconds of non activity.



**IMPORTANT:** When using the Bluetooth source, the player functions may or may not work depending on your Bluetooth device. Not all Bluetooth devices will respond to player functions. Volume control will work on all

audio sources.

Press to advance to Secondary Music screen.



Press or to decrease or increase the value for each music feature. Bass, Treble and Balance range is from -5 to +5.

Subwoofer range is from 0 to 11.

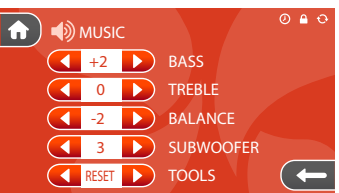
Press in Tools to scroll between PAIR, SIGNAL and

RESET, press in Tools to activate the current function.

To PAIR your device:

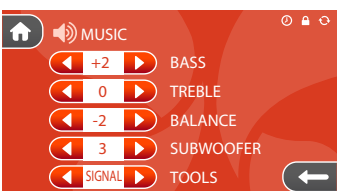
- Press with PAIR displayed inside TOOLS box followed by pressing "connect" next to **My Spa BTXR** on your device to pair. If you do not see this, another device may already be connected (see RESET below To Disconnect another Bluetooth device).

After pairing, you will be ready to use your Bluetooth device. Only one paired Bluetooth device will work at a time.



Use RESET to disconnect any device using the spa music system so that another paired device may be used. This is also necessary when trying to pair multiple devices because pairing is NOT possible when another device is connected to the music system.

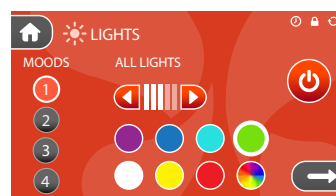
Press with RESET displayed inside TOOLS box to remove any device connected to the music system.



To view the signal strength between your Bluetooth device and the music system Press with SIGNAL displayed inside TOOLS box.

## LIGHTS CONTROL SCREEN

Press on the Home screen to access the primary Lights screen.



**NOTE:** If lights are off when is pressed on the Home screen, all light zones will turn on to blue.

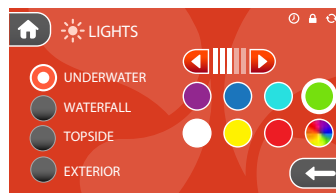
The primary Lights screen is divided into two sections, the MOODS section and the ALL LIGHTS section.

### MOODS (Preset colors and brightness):

- 1** Press to turn On Underwater lights (blue color).
- 2** Press to turn On Underwater (magenta), Topside & Waterfall (aqua) and Exterior lights (white).
- 3** Press to turn On Underwater & Topside lights (aqua).
- 4** Press to turn On Topside lights (white).

### ALL LIGHTS:

- Press to turn all lights On or Off. When all lights are turned On they will all be blue.
- Press or to decrease or increase the brightness setting for all lights that are currently on.
- Press any of the color boxes to turn that color on in all light zones.
- Press the multicolored box to turn color wheel on for all light zones. Press the color wheel a second time to stop the color wheel at a desired color.
- Press to advance to the secondary Lights screen.



Select the color and brightness for each desired light zone.

**NOTE:** Different colors and brightness settings can be selected for each individual zone.

- Press the button next to the zone description to select the desired lighting zone (only one light zone can be selected at a time).
- Press or to decrease or increase the brightness setting for selected light zone.
- Press any of the color boxes to turn that color on in the selected light zone.
- Press the multicolored box to turn color wheel on for selected light zone. If more than one zone uses the color wheel, the colors will automatically synchronize. Press the color wheel a second time to stop the color wheel at a desired color.

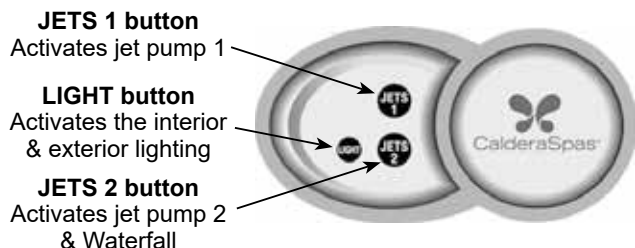


## AUXILIARY PANEL

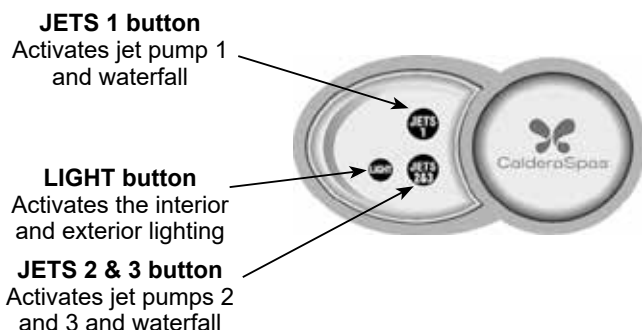
### AUXILIARY CONTROL PANEL BUTTONS

The auxiliary control panel, conveniently located opposite the main control panel allows the user to activate the jets and lights.

#### GENEVA, NIAGARA, TAHITIAN FLORENCE & PROVENCE



#### CANTABRIA



### JETS BUTTON

There are two buttons which affect the jet pumps. Pressing any JETS button once displays the jets symbol on the main control panel display. The symbol will remain displayed until the jet pump is turned off (see chart below), or after one hour of continuous operation when the pumps are automatically shut off by the control system.

GENEVA, NIAGARA, TAHITIAN, FLORENCE & PROVENCE models:		
	JETS 1 button	JETS 2 button
1st press:	pump 1 on	pump 2 on low speed
2nd press:	pump 1 off	pump 2 on high speed
3rd press:	N/A	pump 2 off

CANTABRIA model:		
	JETS 1 button	JETS 2&3 button
1st press:	pump 1 on low speed	pump 2 on low speed
2nd press:	pump 1 on high speed	pump 2 on high speed
3rd press:	pump 1 off	pump 2 & 3 on high speed
4th press:	N/A	pump 2 on low & pump 3 on high speed
5th press:	N/A	pump 2 off & pump 3 on high speed
6th press:	N/A	pump 2 & 3 off

### LIGHT BUTTON

The "LIGHT" button activates the **SPAGLO** multi-zone lighting system and controls the intensity of the light. Pressing the "LIGHT" button operates the light as follows:

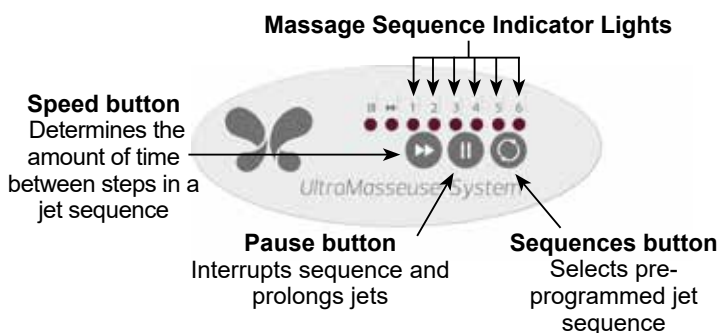
- 1st press of the "LIGHT" button: all lights on.
- 2nd press: topside lights off.
- 3rd press: waterfall light off.
- 4th press: Underwater lights and **EUPHORIA** Jets lights on medium intensity; external lights on full intensity.
- 5th press: Underwater lights and **EUPHORIA** Jets lights on low intensity external lights on full intensity.
- 6th press: Underwater lights and **EUPHORIA** Jets lights off external lights on full intensity.
- 7th press: all lights off.

If any lights are left on, they will automatically be turned off by the control system after six hours of continuous operation. The light icon on the control panel will also turn off when the lights are deactivated.

If the light will not turn on, make sure SPA LOCK is deactivated. SPA LOCK disables the controls on both the main and auxiliary control panel. (See the SPA LOCK section for more information on the SPA LOCK feature.)

### CANTABRIA ULTRAMASSEUSE CONTROL PANEL

The **UltraMasseuse** system turns on automatically in the **UltraMasseuse** lounge when jet pump 3 is activated. At this time, all the jets are on, and only the Speed indicator light is on. Pressing the Sequences button begins the jet massage.sequences button. See Sequences on next page.



## SEQUENCES BUTTON



The Sequences button controls the jet massage pattern.

The **ULTRAMASSEUSE** system is pre-programmed with six different jet sequences. Pressing the "Sequences" button once starts the first jet sequence. The corresponding indicator light will stay lit while the sequence is on.

To scroll through the jet sequences, keep pressing the Sequences button within 5 seconds. To select a jet sequence, scroll through until you have found the one you want, and then release the Sequences button.

Steps	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6
<b>Step 1</b>	Neck and Upper Back Jets Lower Back and Feet Jets	Lower Back and Feet Jets Leg Jets	Neck and Upper Back Jets Leg Jets	Neck and Upper Back Jets	Neck and Upper Back Jets	Neck and Upper Back Jets
<b>Step 2</b>	Lower Back and Feet Jets	Neck and Upper Back Jet Leg Jets	Lower Back and Feet Jets	Neck and Upper Back Jets Lower Back and Feet Jets	All Jets	Lower Back and Feet Jets
<b>Step 3</b>	Leg Jets	Neck and Upper Back Jet Lower Back and Feet Jets	Neck and Upper Back Jets Leg Jets	Lower Back and Feet Jets Leg Jets	All Jets	Leg Jets
<b>Step 4</b>	Repeat Steps 1-3	Neck and Upper Back Jets Lower Back and Feet Jets	Lower Back and Feet Jets	Leg Jets	All Jets	Leg Jets
<b>Step 5</b>		Neck and Upper Back Jet Leg Jets	Neck and Upper Back Jets Lower Back and Feet Jets	Leg Jets	Neck and Upper Back Jets Lower Back and Feet Jets	Lower Back and Feet Jets
<b>Step 6</b>		Lower Back and Feet Jets Leg Jets	Leg Jets	Lower Back and Feet Jets Leg Jets	Neck and Upper Back Jets	Neck and Upper Back Jets
<b>Step 7</b>		Repeat Steps 1-6	Neck and Upper Back Jets Lower Back and Feet Jets	Neck and Upper Back Jets Lower Back and Feet Jets	Repeat Steps 1-6	Repeat Steps 1-6
<b>Step 8</b>			Neck and Upper Back Jets Lower Back and Feet Jets	Neck and Upper Back Jets		
<b>Step 9</b>			Lower Back and Feet Jets Leg Jets	Repeat Steps 1-8		
<b>Step 10</b>			Neck and Upper Back Jets			
<b>Step 11</b>			Lower Back and Feet Jets Leg Jets			
<b>Step 12</b>			Neck and Upper Back Jets			

## SPEED BUTTON



The Speed button determines the amount of time between steps in a jet sequence. This button only functions when you have selected a sequence. The Speed indicator light corresponds to the speed chosen.

Press once: 15 seconds between each step (indicator light blinks slowly)

Press twice: 10 seconds between each step (indicator light blinks at medium speed)

Press a third time: 5 seconds between each step (indicator light blinks fast)

## PAUSE BUTTON



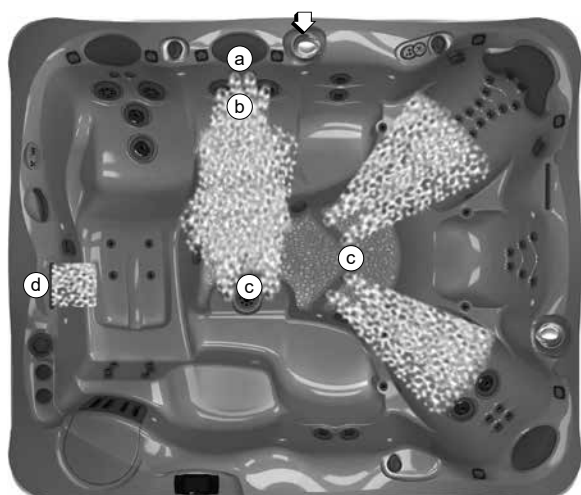
The Pause button will interrupt the jet sequence and prolong the current jet massage.

Press once to pause the pre-programmed jet sequence and continue the current jet activity. The indicator light will be lit when the sequence is paused.

Press a second time to continue the jet sequence.

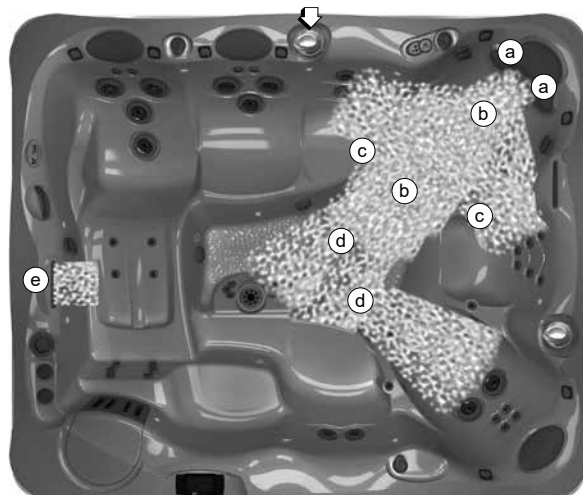
# JET MENU

## CANTABRIA JET SYSTEM MENU



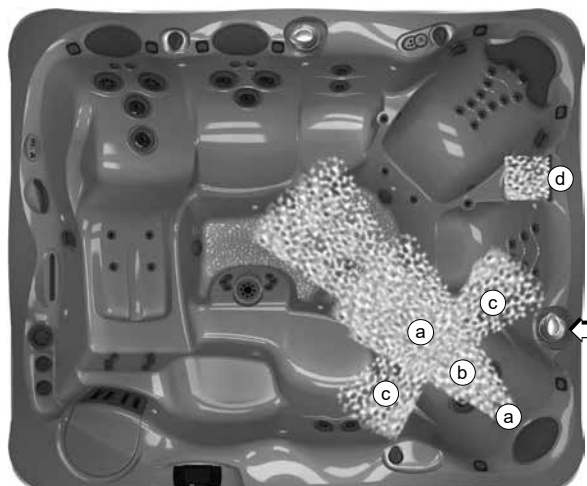
### **JET PUMP 1 - JET SYSTEM 1**

- |                            |                             |
|----------------------------|-----------------------------|
| a. 2 Euro-Directional jets | c. 10 Euro-Directional jets |
| b. 3 VERSASSAGE jets       | d. 1 ACQUARELLA Waterfall   |



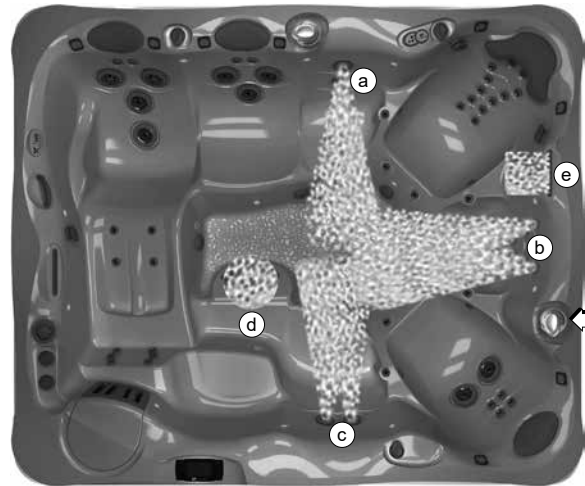
### **JET PUMP 1 - JET SYSTEM 2**

- |                             |                            |
|-----------------------------|----------------------------|
| a. 2 Directional Neck jets  | d. 4 Euro-Directional jets |
| b. 16 Euro-Directional jets | e. 1 ACQUARELLA Waterfall  |
| c. 2 EURO-PULSE jets        |                            |



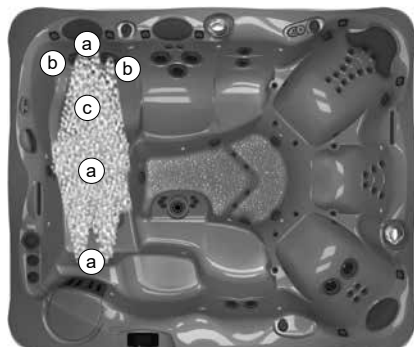
### **JET PUMP 2 - JET SYSTEM 1**

- |                            |                           |
|----------------------------|---------------------------|
| a. 8 Euro-Directional jets | c. 2 EURO-PULSE jets      |
| b. 2 VERSASSAGE jets       | d. 1 ACQUARELLA Waterfall |



### **JET PUMP 2 - JET SYSTEM 2**

- |                            |                           |
|----------------------------|---------------------------|
| a. 2 ADAPTASSAGE jets      | d. 1 EUPHORIA jet         |
| b. 6 Euro-Directional jets | e. 1 ACQUARELLA Waterfall |
| c. 2 ADAPTASSAGE jets      |                           |



### **JET PUMP 3 - ULTRAMASSEUSE SYSTEM**

Located in the UltraMassage™ lounge:

- |                             |
|-----------------------------|
| a. 12 Euro-Directional jets |
| b. 2 ORBISSAGE jets         |
| c. 2 VERSASSAGE jets        |

⬆ = position of diverter valve  
to control jet system

## GENEVA JET SYSTEM MENU



### JET PUMP 1 – JET SYSTEM 1

Located in EcstaSeat™

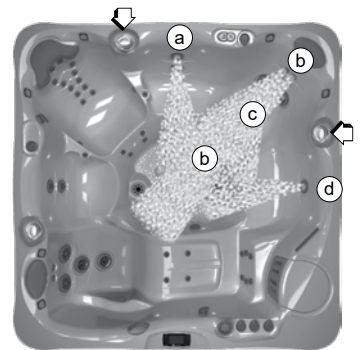
- a. 2 Directional Neck jets
- b. 18 Euro Directional jets
- c. 2 EURO-PULSE jets



### JET PUMP 1 – JET SYSTEM 2

Located in ECSTASEAT

- a. 2 ADAPTASSAGE jets
- b. 1 ADAPTAFLO jet
- c. 1 EUPHORIA jet
- d. 2 Directional Neck jets
- e. 2 Euro Directional jets



### JET PUMP 1 – JET SYSTEM 2

Located in LumbarSsage™ seat

- a. 2 ADAPTASSAGE jets
- b. 8 Euro Directional jets
- c. 2 ORBISSAGE jets
- d. 1 ADAPTAFLO jet



### JET PUMP 2 – JET SYSTEM 1

Located in ULTRAMASSAGE lounge:

- a. 2 VERSASSAGE jets
- b. 2 ORBISSAGE jets
- c. 6 Euro Directional jets
- d. 6 Sole Soothers™ jet
- e. ACQUARELLA Waterfall

☞ = position of diverter valve to control jet system



### JET PUMP 2 – JET SYSTEM 2

Located in ULTRAMASSAGE lounge:

- a. 2 VERSASSAGE jets
- b. 2 ORBISSAGE jets
- c. 2 Euro Directional jets
- d. 2 ADAPTASSAGE jets
- e. 1 EUPHORIA jet
- f. ACQUARELLA Waterfall

## COMBINATION JET SYSTEM

Jet Pump diverter in mid position activates both Jet Pump Systems 1 and 2.  
Right Side diverter in mid position activates both Right Side Systems



# NIAGARA JET SYSTEM MENU



## JET PUMP 1 – JET SYSTEM 1

- a. 2 **VERSASSAGE** jets
- b. 4 Euro Directional jets
- c. 1 **EUPHORIA** jet



## JET PUMP 1 – JET SYSTEM 2

Located in **ECSTASEAT**

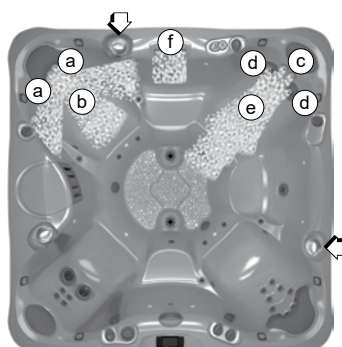
- a. 2 Directional Neck jets
- b. 14 Euro Directional jets
- c. 2 **EURO-PULSE** jets



## JET PUMP 2 – JET SYSTEM 1

Located in **ECSTASEAT**

- a. 2 Directional Neck jets
- b. 14 Euro Directional jets
- c. 2 **EURO-PULSE** jets
- d. **ACQUARELLA** Waterfall

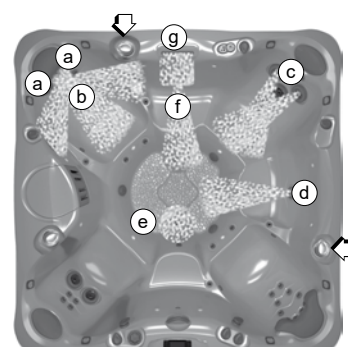


## JET PUMP 2 – JET SYSTEM 2 +

Located in **ECSTASEAT**

- a. 2 Directional Neck jets
- b. 2 Euro Directional jets
- c. 2 Euro Directional jets
- d. 2 **ORBISSAGE** jets
- e. 2 **VERSASSAGE** jets
- f. **ACQUARELLA** Waterfall

Located in **ULTRAMASSAGE** seat



## JET PUMP 2 – JET SYSTEM 2 +

Located in **ECSTASEAT**

- a. 2 Directional Neck jets
- b. 2 Euro Directional jets
- c. 2 **ORBISSAGE** jets
- d. 1 **ADAPTAFLO** jet
- e. 1 **EUPHORIA** jet
- f. 1 **ADAPTAFLO** jet
- g. **ACQUARELLA** Waterfall

Located in **ULTRAMASSAGE** seat

☞ = position of diverter valve  
to control jet system

## COMBINATION JET SYSTEM

Jet Pump diverter in mid position activates both Jet Pump Systems 1 and 2.  
Right Side diverter in mid position activates both Right Side Systems

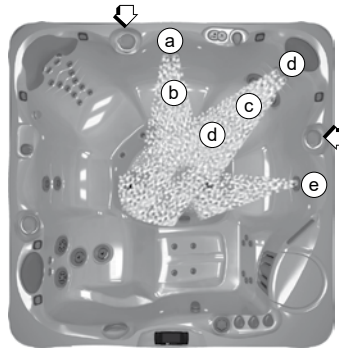
## TAHITIAN JET SYSTEM MENU



### JET PUMP 1 – JET SYSTEM 1

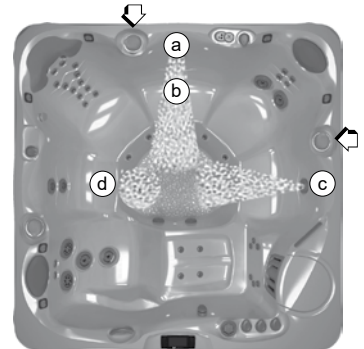
Located in ECSTASEAT

- a. 2 Directional Neck jets
- b. 14 Euro Directional jets



### JET PUMP 1 – JET SYSTEM 2

- a. 2 Euro Directional jets
  - b. 1 ADAPTAFLO jet
- Located in LUMBARSSAGE seat
- c. 2 VERSASSAGE jets
  - d. 6 Euro Directional jets
  - e. 1 ADAPTAFLO jet



### JET PUMP 1 – JET SYSTEM 2

- a. 2 Euro Directional jets
- b. 1 ADAPTAFLO jet
- c. 1 ADAPTAFLO jet
- d. 1 EUPHORIA jet

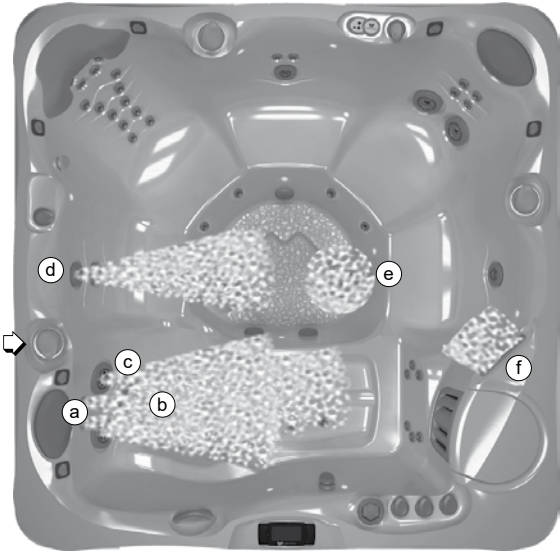


### JET PUMP 2 – JET SYSTEM 1

Located in ULTRAMASSAGE lounge

- a. 6 SOLE SOOTHERS
- b. 6 Euro Directional jets
- c. 2 VERSASSAGE jets
- d. 2 ORBISSAGE jets
- e. ACQUARELLA Waterfall

⏏ = position of diverter valve  
to control jet system



### JET PUMP 2 – JET SYSTEM 2

Located in ULTRAMASSAGE lounge

- a. 2 Euro Directional jets
- b. 2 VERSASSAGE jets
- c. 2 ORBISSAGE jets
- d. 2 ADAPTASSAGE jets
- e. 1 EUPHORIA jet
- f. ACQUARELLA Waterfall

## COMBINATION JET SYSTEM

Jet Pump diverter in mid position activates both Jet Pump Systems 1 and 2.  
Right Side diverter in mid position activates both Right Side Systems

## FLORENCE JET SYSTEM MENU



### JET PUMP 1 – JET SYSTEM 1

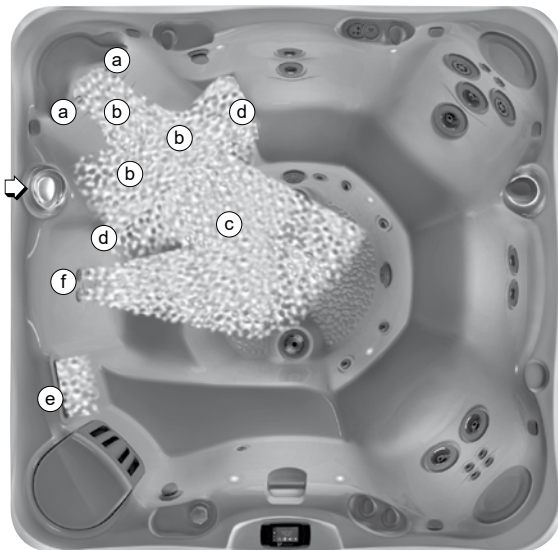
Located in **LUMBARSSAGE** seat

- a. 2 Euro Directional jets
- b. 2 **ORBISSAGE** jets
- c. 2 **VERSASSAGE** jets
- d. 2 Euro Directional jets
- e. 2 **ADAPTASSAGE** jets



### JET PUMP 1 – JET SYSTEM 2

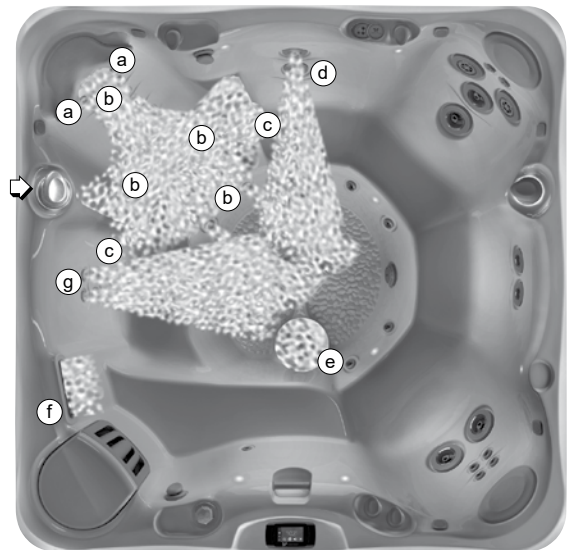
- a. 1 **EUPHORIA** jet
  - b. 2 **ADAPTASSAGE** jets
- Located in **ECSTASEAT**
- c. 2 **VERSASSAGE** jets
  - d. 4 Euro Directional jets
  - e. 2 Euro Directional jets



### JET PUMP 2 – JET SYSTEM 1

Located in **ECSTASEAT**

- a. 2 Directional Neck jets
- b. 14 Euro Directional jets
- c. 2 Euro Directional jets
- d. 2 **EURO-PULSE** jets
- e. **ACQUARELLA** Waterfall
- f. 4 Euro Directional jets



### JET PUMP 2 – JET SYSTEM 2

Located in **ECSTASEAT**

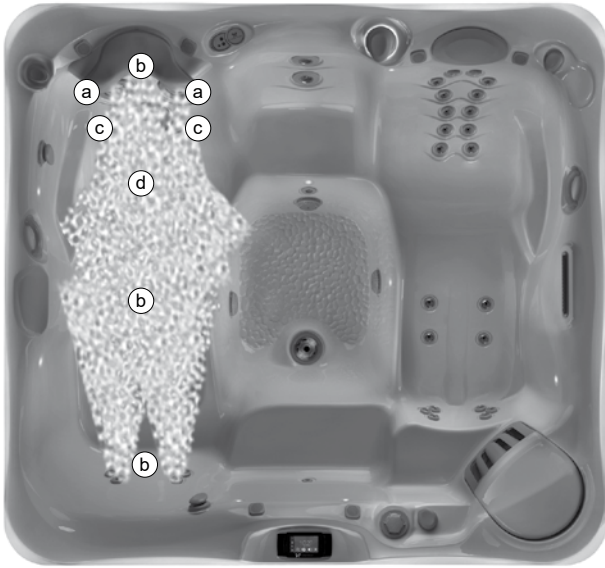
- a. 2 Directional Neck jets
- b. 6 Euro Directional jets
- c. 2 **EURO-PULSE** jets
- d. 2 **ADAPTASSAGE** jets
- e. 1 **EUPHORIA** jet
- f. **ACQUARELLA** Waterfall
- g. 4 Euro Directional jets

## COMBINATION JET SYSTEM

Jet Pump diverter in mid position activates both Jet Pump Systems 1 and 2.



## PROVENCE JET SYSTEM MENU



### JET PUMP 1 – JET SYSTEM

Located in **ULTRAMASSAGE** lounge:

- a. 2 Directional Neck jets
- b. 12 Euro Directional jets
- c. 2 **ORBISSAGE** jets
- d. 2 **VERSASSAGE** jets



### JET PUMP 2 – JET SYSTEM 1

Located in **ECSTASEAT** lounge:

- a. 22 Euro Directional jets
- b. **ACQUARELLA** Waterfall



### JET PUMP 2 – JET SYSTEM 2

Located in **ECSTASEAT** lounge

- a. 12 Euro Directional jets
- b. **ACQUARELLA** Waterfall
- c. 1 **EUPHORIA** jet
- d. 2 **ADAPTASSAGE** jets

### COMBINATION JET SYSTEM

Jet Pump diverter in mid position activates Jet Pump 2 Systems 1 and 2.



# SPA CARE AND MAINTENANCE

Your **CALDERA** spa is manufactured from the highest quality, most durable materials available. Even so, the spa care and maintenance program you develop will ultimately determine how long your spa, and its individual components, will last. Regular maintenance and following the advice in this section will help you to protect your investment.

## FILTER MAINTENANCE

At least once a week, check and clean the skimmer basket and weir to ensure proper filter flow. Remove leaves, foreign matter, and debris. It is very important to keep your spa filter cartridge clean and free of particles to ensure proper water flow. A clean filter enables the hydrotherapy system to function properly and allows for more efficient filter cycles. Depending on how frequently your spa is used, we recommend cleaning the spa filter cartridge every four weeks. If this is not done, the filter may clog and restrict water flow, which causes improper filtration, poor jet performance and may possibly freeze.

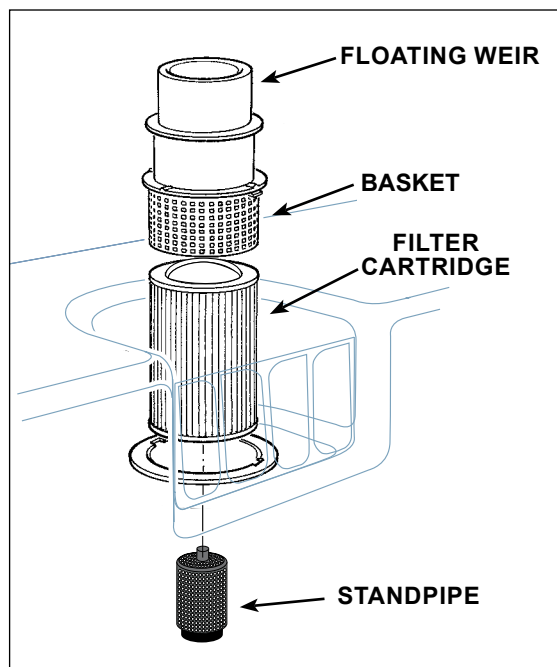
**IMPORTANT:** The frequency and duration of use, and the number of occupants all contribute to determining the appropriate time between filter cleanings. More use means that more frequent filter cleanings will be required.

## FILTER CARTRIDGE REMOVAL AND CLEANING INSTRUCTIONS

Turn the power to the spa off, then proceed as follows:

Push down slightly and turn filter basket counter-clockwise to unlock, then pull out the basket and floating weir.

Carefully pull up the filter cartridge and bring it out of the spa.



**FILTER SYSTEM**

Always clean the filter using a filter degreaser to remove mineral and oil build-up. Simply soak the filter in the degreaser (according to the package directions), then place the filter on a clean surface and spray until clean using a garden hose. It may be necessary to rotate the filter while spraying to remove any debris lodged between the filter pleats. Re-insert filter cartridge.

To return basket and floating weir, insert and rotate clockwise to lock into position. Then turn spa's power back on.

**NOTE:** Replacement filter cartridges are available from your **CALDERA** dealer. Refer to the back of this manual to determine the appropriate size for your spa.

## DIVERTER VALVE MAINTENANCE

If your spa's diverter valves become difficult to turn, it is likely that sand or grit is lodged inside the valve body. It is very important that this debris is removed as soon as possible to avoid damage to the valve. To clean the valves, follow these steps:

1. Turn off power to the spa by tripping both GFCI breakers located in the subpanel.
2. Unscrew the cap ring to remove the diverter valve's handle as cap ring comes upward.
3. Remove the valve body by pulling it upward.
4. Wipe the valve body and the interior walls of the valve clean.
5. Lubricate the o-rings with a waterproof lubricant available from your **CALDERA** dealer.
6. Reassemble the valve and turn power to the spa on.

## VERSASSAGE JET MAINTENANCE

If you notice that the **VERSASSAGE** jet spins slower than when the spa was new, or the jets are sticking, the cause may be built-up deposits inside the jet bearings. To remove the deposits, use the following instructions:

1. With the spa off, rotate the **VERSASSAGE** jet face counter-clockwise until it stops.
2. Once the face stops rotating, use a little extra force to rotate the face even more counter-clockwise past the locking position until it stops. Pull face with the body away from the spa.
3. After flushing the bearing inside the body with water, spin the rotating eye. It should spin very freely. If it does not, place the bearing end in a cup of vinegar (the vinegar will soften any deposits). Allow it to soak overnight. The next day, flush with water and repeat the spin test.

**NOTE:** If the jets still don't spin freely, a second night of soaking maybe required. If the bearing still does not spin, you will need to purchase a replacement assembly from your **CALDERA** dealer.

## DRAINING YOUR SPA

1. Turn off all GFCI breakers in sub-panel, or main electrical panel.

2. Locate the main drain valve (bottom front) for the spa. Pull on handle (Figure 1, pliers may be used to pull handle) until you reach the mid position then rotate handle slightly to fully extended drain tube (drain cap and 1" of the drain tube is exposed) (Figure 2) then remove the drain cap (Figure 3).

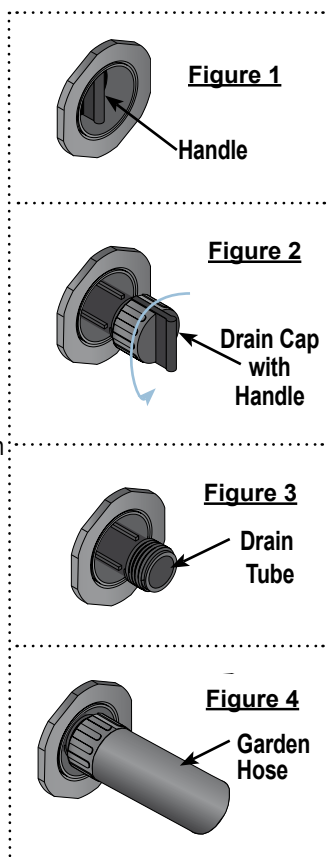
**NOTE:** Do not remove drain cap in mid position. Attach the garden hose to the end of the drain (to avoid flooding of the foundation surrounding the spa) making sure not to push the drain tube inward. Route the outlet of the hose to an appropriate draining area.

**NOTE:** Spa water with a high sanitizer level may harm plants and grass.

3. Push the garden hose and drain tube half-way back towards the spa (Figure 4) which will start the gravitational flow. Drain tube must be in the mid position for the spa to drain.

**IMPORTANT:** All models will drain almost completely through the drain valve. Equipment such as the jet pump and heating system may not completely drain. Any water remaining within the plumbing or equipment after draining will only need to be removed if the spa is being winterized.

4. After your spa is empty, clean the shell and filter cartridge.
5. Pull and remove garden hose, replace drain cap and push drain tube back into spa as seen in Figure 1.
6. Follow the "START-UP PROCEDURES" to refill your spa.



## PREVENTION OF FREEZING

Your spa has been designed and engineered for year-round use in any climate. In some areas, extremely cold temperatures (below -12°C) (10°F) combined with strong wind, may cause partial freezing of the jet pump, even though the water inside the spa remains at the selected temperature. The energy efficiency of the spa may also decrease during these cold periods, as the heater will cycle more frequently. As an additional precaution against partial freezing of some of the components, the equipment compartment can be insulated with an insulating kit (P/N 31399) available from your local dealer. This insulating kit will also help to maximize the spa's energy efficiency.

**NOTE:** When warmer weather returns (approx. 16°-21°C) (60°-70°F), the insulating kit must be removed to prevent overheating of the jet pump.

## WINTERIZING YOUR SPA

If you leave the spa unused for a long period of time in severely cold weather, you should drain the spa and winterize it to avoid accidental freezing due to a power or equipment failure.

Use only Propylene Glycol as your anti-freeze (available at most RV or marine supply stores). This is non-toxic.

**DANGER:** Never use an automobile anti-freeze (Ethylene Glycol) since it is toxic!

**WARNING:** Failure to follow these instructions correctly can lead to freeze damage not covered by warranty. It is strongly recommended that you contact your local dealer to perform this service.

1. Drain your spa following the Draining Your Spa section in the owner's manual.
2. Remove the filter cartridge, clean and store in a dry place.  
**IMPORTANT:** These additional instructions must be utilized when draining and winterizing your spa in climates where the temperature falls below 0°C (32°F). A 20 liter combination (vacuum/blower) wet/dry shop vac must be used to effectively remove water that is trapped inside the plumbing lines.
3. Attach the vacuum hose to the vacuum side of the shop vac. Vacuum all openings and orifices as follows:
  - a. Jet openings: start with the jets at the top and move downward (if suction is coming from another jet, block off the other jet using a large rag – this will help pull out the water that is trapped deeper inside the main line).
  - b. Filter suction fittings and filter compartment.
  - c. Main drain outlet (it may be necessary to cover the drain grate tightly with a rag when vacuuming the main drain to ensure water is drawn completely from the internal plumbing system).
4. Thoroughly dry the spa shell with a clean towel.
5. Remove pump door first. Once door is removed unscrew the pump drain plugs located on the front of the pump housing. Allow all water to drain out. Place the drain plugs in a ziplock bag and store near the pumps. Replace the drain plugs on Start-up.
6. Unscrew the pump unions and allow the water to drain. Loosen and remove hose attached to circulation pump to allow any remaining water from heater and spa to drain out. Replace circulation pump hose once water is drained. **NOTE:** Tighten the pump unions prior to filling the spa.
7. Replace the main drain cap.
8. Using a long-extension funnel, pour anti-freeze into all standpipes, filter suction fittings, jet orifices and water feature orifices. Also, add anti-freeze to the **FROG** canister. Add enough anti-freeze to ensure adequate protection – in many cases, you will see the liquid in the orifice, or coming out of another location.  
**CAUTION:** Use only Propylene Glycol as your anti-freeze. This is non-toxic. Never use an automobile anti-freeze (Ethylene Glycol) since it is toxic!
9. Close the spa cover and fasten the cover tie downs. Cover the spa cover with two pieces of plywood to evenly distribute the weight of snow and ice. Secure a plastic sheet, or tarp, over the spa cover and plywood.
10. Replace the equipment access door, if removed.

## OPENING INSTRUCTIONS:

1. Remove plywood and plastic sheet. Open the spa cover by unfastening the cover tie downs.
2. Follow the Start-up Procedures in the Getting Started section of the Owner's Manual. Do not install filters to prevent them from exposure to the anti-freeze.

3. As part of this process, superchlorinate the spa water by adding three teaspoons of chlorine (sodium dichlor) per 250 gallons of spa water into the filter compartment. This is twice the normal amount of chlorine needed for superchlorination. This extra amount of chlorine is needed to destroy the anti-freeze.

**NOTE:** A defoamer may be needed to decrease the amount of foam caused by the anti-freeze.

4. Drain your spa to ensure removal of anti-freeze. Do not drain water on grass or plants due to excessive chlorine level.
5. After the spa has completely drained, re-install your filter and follow the Start-up Procedures in the Getting Started section of the Owner's Manual.

**IMPORTANT:** Always keep spa covered when not in use, whether it is empty or full.

## CARE OF THE SPA PILLOWS

The spa pillows will provide years of comfort if treated with care. They have been positioned above the water level to minimize the bleaching effects of chlorinated water and other spa water chemicals. To extend their life, whenever the spa shell is being cleaned, the spa pillows should be removed and cleaned. Body oils can be removed with a mild soap and water solution. ALWAYS rinse off the spa pillows thoroughly to remove any soap residue. If the spa is not going to be used for a long period of time (that is during a vacation or if the spa is winterized), or when the spa water is being super-chlorinated, the spa pillows should be removed until the next use of the spa.

### TO REMOVE AND REPLACE THE SPA PILLOWS:

1. Carefully lift one end of the pillow away from the spa shell.
2. Continue lifting one end until all pillow retainers are released from the pillow.  
**IMPORTANT:** Just pulling the pillow straight up and out of the shell recess will eventually damage the pillow. This abuse is not covered under warranty.
3. To reinstall the spa pillow, carefully bend the pillow slightly to allow one of the pillow retainers to slip into the recess in the back of the pillow.
4. Keeping the pillow slightly bent, slide the other pillow retainer into the recess in the back of the pillow.
5. After all the pillow retainers are in place, press the pillow down into the recess in the spa shell.

## CARE OF THE EXTERIOR

### SPA SHELL

Your **CALDERA** spa has an acrylic shell. Stains and dirt generally will not adhere to your spa's surface. A soft rag or a nylon scrubber should easily remove most dirt. Most household chemicals are harmful to your spa's shell (see below for detailed information on cleaning agents). Always rinse off any spa shell cleaning agent with fresh water.

#### **IMPORTANT:**

1. The following products are the ONLY approved cleaning agents for your **CALDERA** spa shell: plain water, **CALDERA** Spa Shine, Brilliance® or Soft Scrub®. The use of alcohol or any other household cleaner other than those listed to clean the spa shell surface is NOT recommended. DO NOT use any cleaning products containing abrasives or solvents since they may damage the shell surface, specifically: Simple Green®, Windex® or Spa Mitt. NEVER USE HARSH CHEMICALS! Damage to the shell by use of harsh

chemicals is not covered under the warranty. Always rinse off any spa shell cleaning agent with fresh water.

2. Iron and copper in the water can stain the spa shell if allowed to go unchecked. Ask your **CALDERA** dealer about a Stain and Scale Inhibitor to use if your spa has a high concentration of dissolved minerals. (**WATKINS WELLNESS** recommends Stain & Scale Defense.)
3. Keep all cleaners out of the reach of children and use care when applying.

## AVANTE™ SPA CABINET

All Utopia spas use the exclusive all-climate **AVANTE** Cabinet designed for years of performance. The unique, ribbed pattern design is enhanced by the rich cabinet colors that give the appearance of high-end furniture, without looking like real wood and, because of the durability of the spa cabinet material, it comes with a five year warranty against cracking, or rotting.

## CARE OF THE SPA COVER

**⚠ WARNING:** The cover is a manual safety cover that meets or exceeds all prevailing requirements of ASTM Standards for spa safety covers when installed and used correctly as of the date of manufacture. Non-secured or improperly secured covers are a hazard. Open the cover to its fully open position before use.

### VINYL COVER

The vinyl spa cover is an attractive, durable foam insulation product. Monthly cleaning and conditioning are recommended to maintain its beauty.

### TO CLEAN AND CONDITION THE VINYL COVER:

**SERVICE NOTE:** To remove tree sap, use cigarette lighter fluid (not charcoal lighter fluid). Use sparingly, and rinse with a saddle soap solution immediately afterwards, then wipe dry.

### IMPORTANT REMINDERS:

- **DO** remove snow buildup to avoid breakage of the foam core from the additional weight of the snow.
- **DO** lock cover lock straps to secure the cover when the spa is not in use.
- **DO NOT** drag or lift the spa cover using either the flaps or the cover lock straps.
- **DO NOT** walk, stand, or sit on the cover.
- **DO NOT** place any metal or heat transferring object on the cover or place any type of plastic tarp or drop cloth over the cover as this may result in a melted foam core, which would not be covered under the warranty.
- **DO NOT** use any lifting mechanisms, chemicals or cleaners except those recommended by **WATKINS WELLNESS** or its Authorized Sales and Service Dealer.
- It's important to have clean water. Water maintenance is one of the least understood, yet most important areas of spa ownership. Your dealer can guide you through the process of achieving and maintaining perfect water in your spa, given your local conditions. Your program will depend on your water's mineral content, how often you use your spa, and how many people use it.

# ELECTRICAL REQUIREMENTS

**IMPORTANT:** Fill the spa with water before turning on the power.

Your **CALDERA** spa has been carefully designed to give you maximum safety against electrical shock. Connecting the spa to an improperly wired circuit will negate many of the spa's safety features. Improper wiring may also cause electrocution, risk of fire, and other risks of injuries. Please read and follow the electrical installation requirements and instructions for your specific spa model completely!

All **CALDERA** spa models, are equipped with a power indicator (**CALDERA** Logo orange light) which, in addition to showing the spa has power to it, has a diagnostic function as well. It will begin blinking if the heater high-limit thermostat has tripped. If the power indicator light is blinking, follow the instructions in the Troubleshooting section to identify and correct the cause. The power indicator will stop blinking once the problem has been corrected. The Power and Ready indicator lights on the control panel also provide the same diagnostic function.

## 220 - 240 VOLT PERMANENTLY CONNECTED

**CALDERA** spas must be wired in accordance with all applicable National and Local Electrical Codes. All electrical work should be done by an experienced, licensed electrician. We recommend the use of appropriate electrical conduit, fittings, and wire for all circuits.

All **UTOPIA** spas require a dual electrical service using a 16 & 25 amp breaker and wired per the illustration found on the next page. Additionally, one main disconnect switch with at least 3 mm separation between contacts must be used for all electrical circuits to the spa.

**NOTE:** The **CANTABRIA** will require an additional 16 amp breaker in order to operate the heater and the Lounge seat (jet pump 3) at the

same time. Without the additional 16 amp breaker, the heater will **NOT** operate while the jets in the lounge (jet pump 3) are on.

- Mount the subpanel according to local codes, but not closer than 1.5 meters (5 feet) away. Your spa must be supplied by a ground fault circuit interrupter - residual current device (RCD) - with a tripping rating not exceeding 30 mA in an electrical subpanel.
- Open spa using Door Panel Removal instructions.
- Insert power wires into spa from either side towards the bottom front, you will find a plastic cap attached to spa.
- Once your spa has been filled with water, turn it on and test all of the circuit breakers.

**IMPORTANT:** If both breakers immediately trip, verify that the wires are correctly connected. Each breaker should be tested prior to each use. Here's how:

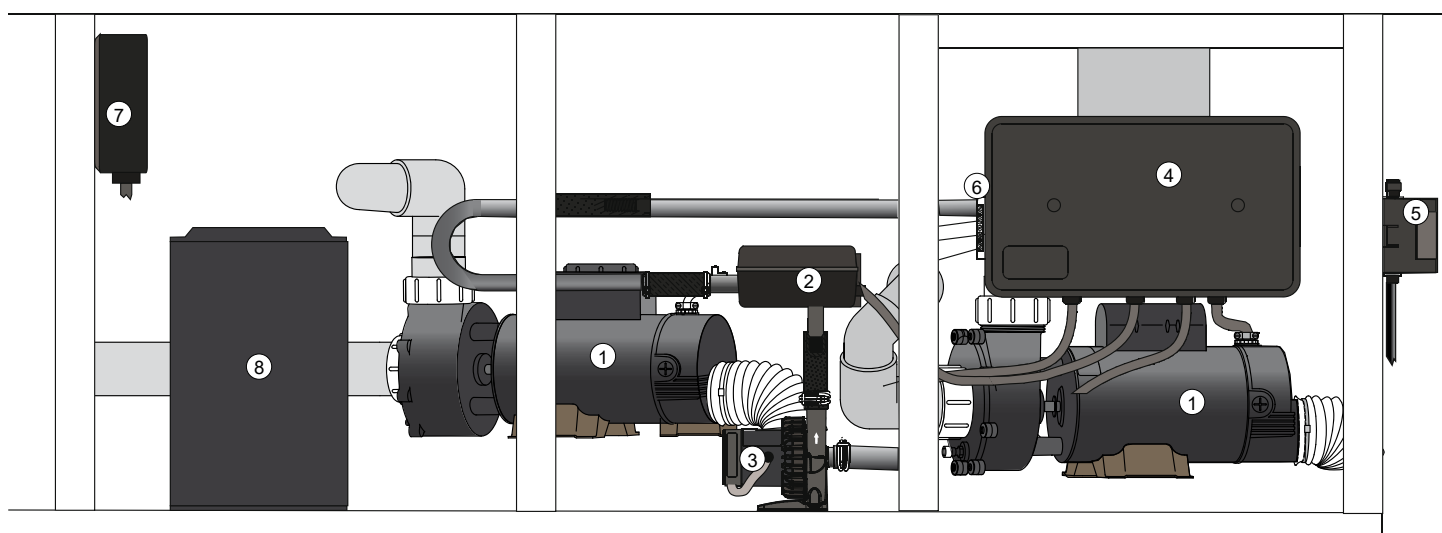
1. Push the "TEST" button on each GFCI breaker, and observe it click OFF.
2. Wait 30 seconds, then push the breaker switch to the OFF (down) position (to ensure that it has completely disengaged), then push the breaker switch to the ON (up) position. If you don't wait 30 seconds, the spa's power indicator may continue to blink – try again.

If any of the GFCI breakers fails to operate in this manner, your spa may have an electrical malfunction, and you may be at risk of electrical shock. Turn off all circuits and do not use the spa until the problem has been corrected by an authorized service agent.

**⚠ WARNING:** Removing, or bypassing any GFCI breaker will result in an unsafe spa and will void the spa's warranty.

## EQUIPMENT COMPARTMENT

The illustration below is to be used as a reference only (your spa may look different). The equipment compartment is located behind the front panel of the spa below the Main Control Panel.



1. Jet pump\*
2. EnergyPro™ heater
3. **ENERGY PRO** Circulation Pump
4. Advent™ Control Box

5. **MONARCH** Ozone Generator
6. Bonding terminal
7. Bluetooth Music (optional)
8. Subwoofer (optional)

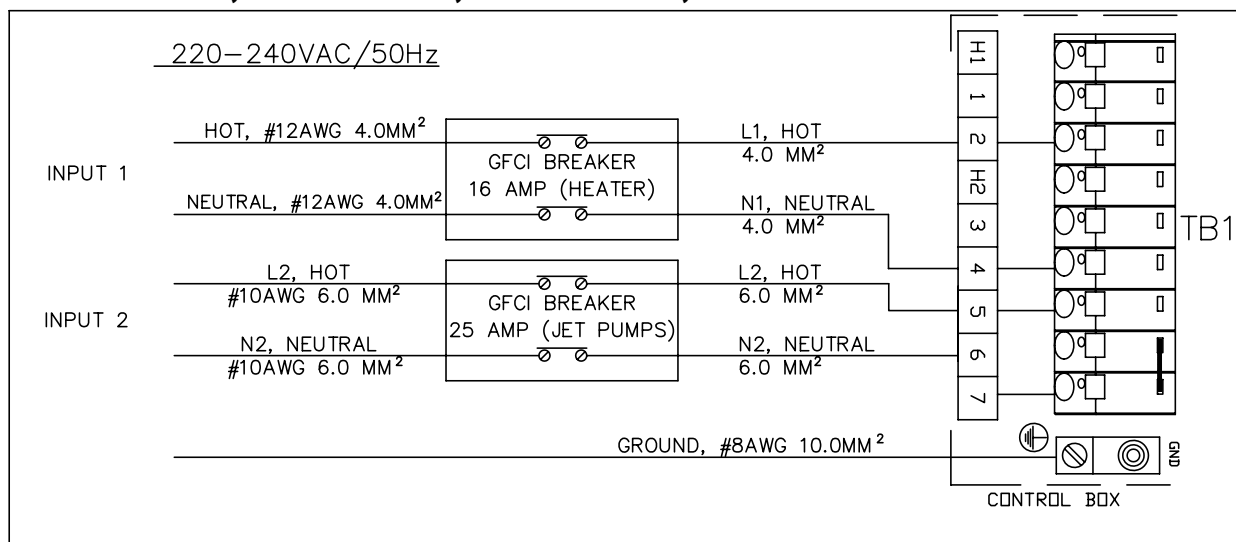
\* There are 3 jet pumps located in the Cantabria equipment compartment, only 2 are shown in illustration above.



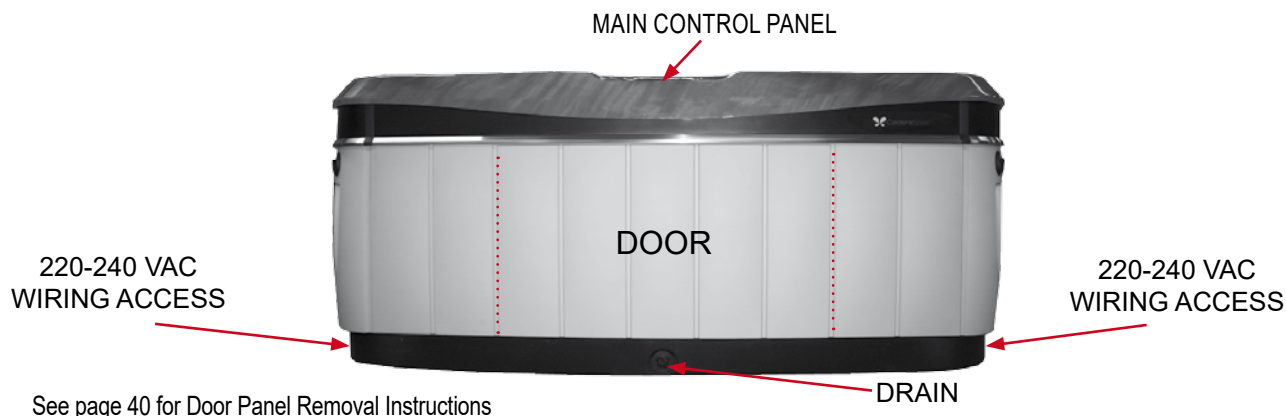
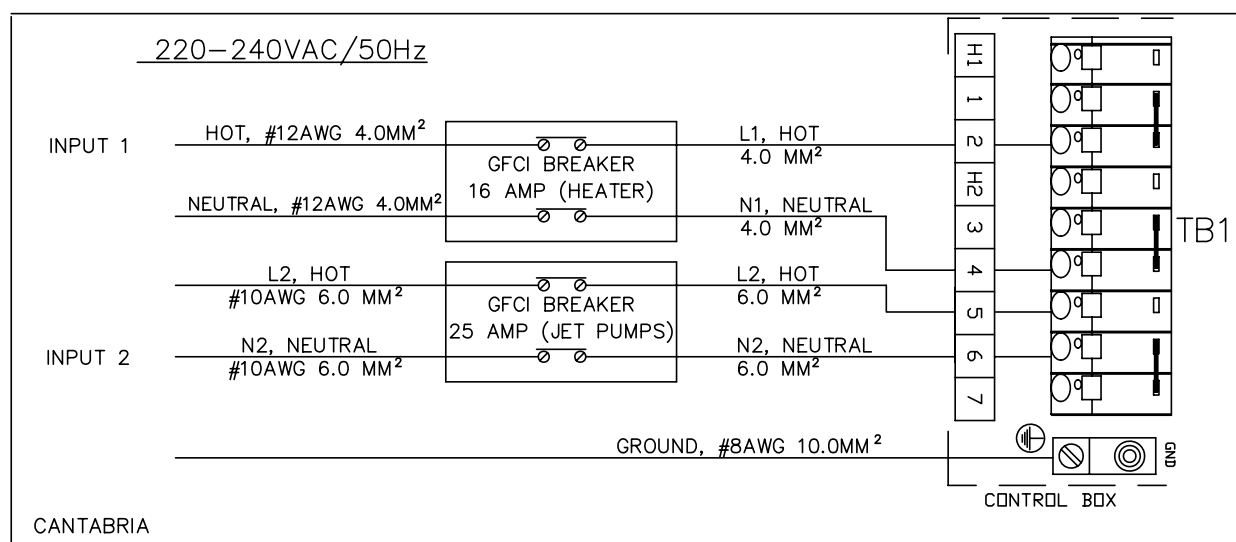
**IMPORTANT:** If you ever need to move or relocate your **CALDERA** spa, it is essential that you understand and apply these installation requirements. Your **CALDERA** spa has been carefully engineered to provide maximum safety against electric shock. Remember, connecting the spa to an improperly wired circuit will negate many of its safety features.

**NOTE:** Long wiring runs may require larger-gauge wire than stated.

## GENEVA, NIAGARA, TAHITIAN, FLORENCE & PROVENCE



## CANTABRIA



# INSTALLATION INSTRUCTIONS

## OUTDOOR AND PATIO INSTALLATION

No matter where you put your new spa, it's important that it has a solid foundation to support it. In fact, structural damage to the spa, resulting from incorrect installation, or placement on an inadequate foundation, is not covered under the spa's limited warranty.

If you install the spa outdoors, we recommend a reinforced concrete pad at least ten centimeters (four inches) thick. The reinforcing rod or mesh in the pad should be attached to a 6 mm<sup>2</sup> bonding wire per national electrical codes (contact your local electrical code compliance inspector for more information; inspection for proper grounding may be required before pouring concrete to form the slab).

If you place the spa on the ground, even temporarily, place stepping stones under the leveling areas (see Spa Leveling Instructions). The stones should be at least 5 cm thick and 30 cm square. Even with stones in place, the spa will inevitably settle and become unlevel. Plus, a spa surrounded by dirt or grass will soon be filled with dirt or grass from users' feet. So get it onto a solid foundation as soon as possible.

## DECK INSTALLATION

To be certain your deck can support your spa, you must know the deck's maximum load capacity. Consult a qualified building contractor or structural engineer. To find the weight of your spa, its contents and occupants, refer to the Spa Specification chart. This weight per square meter must not exceed the structure's rated capacity, or serious structural damage could result.

**CAUTION:** WATKINS WELLNESS suggests a structural engineer or contractor be consulted before the spa is placed on an elevated deck.

## INDOOR/BASEMENT INSTALLATION

Be aware of some special requirements if you place your spa indoors. Water will accumulate around the spa, so flooring materials must provide a good grip when wet. Proper drainage is essential to prevent a build-up of water around the spa. When building a new room for the spa it is recommended that a floor drain be installed. The humidity will naturally increase with the spa installed. Water may get into woodwork and produce dry rot, mildew, or other problems. Check for airborne moisture's effects on exposed wood, paper, etc. in the room. To minimize these effects, it is best to provide plenty of ventilation to the spa area. An architect can help to determine if more ventilation must be installed.

**CALDERA** spas are equipped with a vent to remove excessive heat from the equipment compartment. Find this vent (its under the bottom front left or right corner) and be sure the vent is not blocked by anything, including carpeting.

Your **CALDERA** dealer can help you with local information such as zoning regulations and building codes. They can also give you a copy of our planning guide.

**CAUTION:** Do not install the spa on a heated floor.

⚠ **WARNING:** Please keep the area around your spa well ventilated when it is installed indoors or in a confined area. Inadequate ventilation around the spa could cause a build-up of a higher-than-normal concentration of spa chemicals and/or bacterial fragments. These dispersed spa chemicals and/or bacterial fragments can be inhaled, and may result in breathing difficulties or

lung damage in certain people suffering from a compromised immune system or respiratory infection. If you or other bathers are affected by this condition, please seek medical attention as soon as possible.

## DELIVERY ACCESS

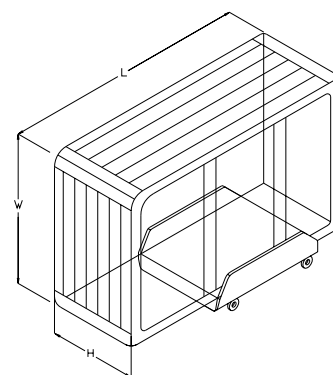
**NOTE:** It may be necessary to allow for additional over-head clearance if the spa will be rolled up or down an incline or moved up or down a short flight of stairs.

Use the information in the chart below to determine the requirements for access to your desired location. It may be necessary to remove a gate, part of a fence, or other movable obstructions in order to roll the spa to its installation site. About ten percent of the time, a crane is the only way to install the spa by lifting it to its final destination.

If the spa has to be taken off of the cart to go over a wall (either because the entry area is too narrow, the eaves are too low, the corner is too tight, or the stairway is too steep), a crane will be required. Don't be alarmed!

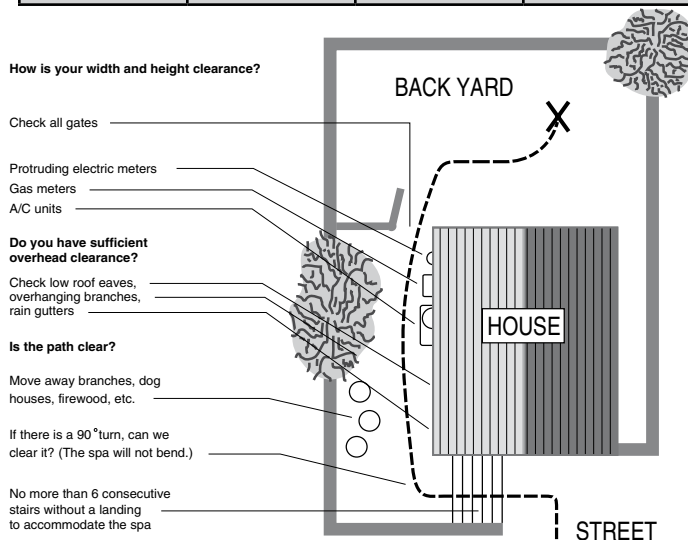
The crane has a truck-mounted boom which can fit right in your driveway. It is run by a licensed and insured operator. For a charge, the crane operator will lift your spa over walls, buildings, or any other obstruction and place it as close to the installation site as possible. The **CALDERA** spa delivery personnel will supervise the crane delivery and complete the spa installation. Crane delivery typically takes an average of 30 minutes to complete.

**NOTE:** If your spa delivery requires the use of a crane, you may be required to pay for its services at the completion of the delivery.



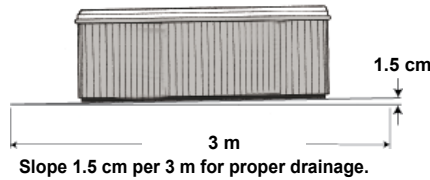
## SPA DIMENSIONS ON CART

Model	Height (H)	Length (L)	Width (W)
CANTABRIA	97 cm	274 cm	231 cm
GENEVA	97 cm	226 cm	226 cm
NIAGARA	97 cm	226 cm	226 cm
TAHITIAN	91 cm	213 cm	213 cm
FLORENCE	91 cm	213 cm	213 cm
PROVENCE	89 cm	213 cm	198 cm

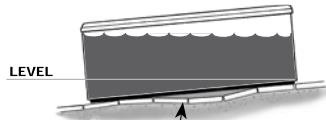


## SPA LEVELING PREPARATION

Concrete sloped at 1.5 cm per 3 m is preferred so that rain water and water spillover will run off and not puddle underneath the spa (water under the spa for long periods of time may cause the wood to deteriorate). Other options are brick, stepping stone, or blocks.



It is important to note that soft surfaces, even when stepping stones are used to evenly distribute the weight of the spa, will have a tendency to settle, thus resulting in an unlevelled spa.



Stepping stones or brick may settle causing the spa to be unlevel.

**NOTE:** Placing the spa on grass or dirt may increase the amount of debris which is inadvertently brought into the spa water and may cause harm to your equipment as well as the spa surface, which is not covered under warranty.

## GROUND PREPARATION

Your **CALDERA** spa has been engineered to perform on several kinds of surfaces. While a concrete slab is best for long-term use\*, other foundations are acceptable so long as a level base is prepared prior to delivery.

**\*NOTE:** A reinforced concrete pad at least 10 cm (4 inches) thick or a deck that is able to withstand more than 515 kg/m<sup>2</sup> is recommended for the **PROVENCE**, 610 kg/m<sup>2</sup> is recommended for **TAHITIAN** spa, and 600 kg/m<sup>2</sup> is recommended for the **GENEVA & NIAGARA** and 635 kg/m<sup>2</sup> for the **CANTABRIA** spa.

## INSTALLATION NOTES:

If you are purchasing a deck package or a gazebo with your spa, a solid foundation becomes mandatory. Placing them on any surface other than a single level pad could create problems with their installation.

As a homeowner, it is your responsibility to provide a suitable, level foundation for your spa. Keep in mind that most delivery crews are not equipped to level and prepare spa sites.

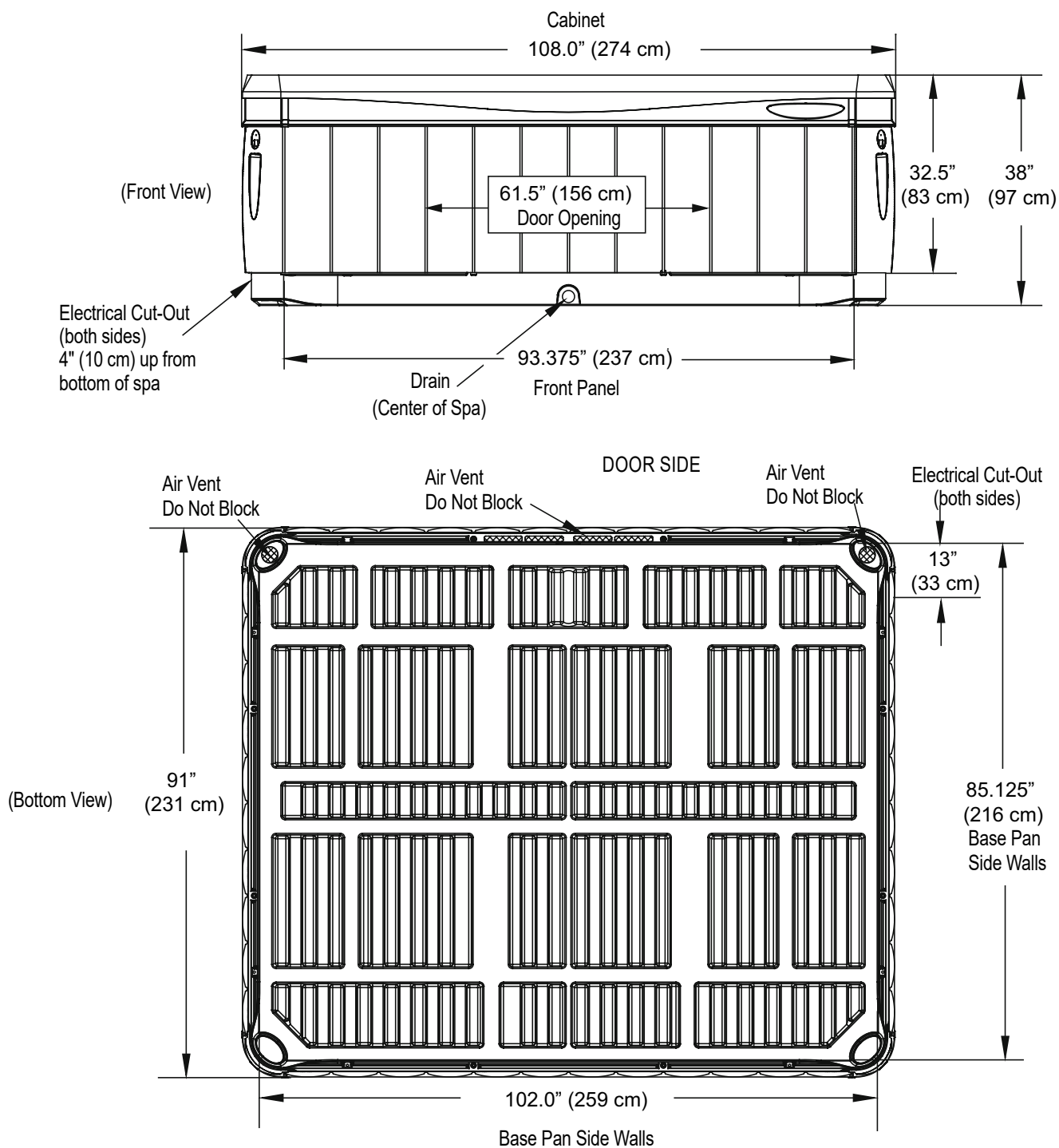
If you are interested in having a concrete slab, brick surface, or wood deck installed, your **CALDERA** dealer should be able to suggest a qualified, licensed contractor.

**NOTE:** In order for the spa to operate properly and the internal plumbing to drain completely, you must ensure that the spa is level after it has been installed. Your **UTOPIA** spa delivery crew can help you perform the procedure.

# CANTABRIA

## Dimensions

NOTE: All dimensions are approximate; measure your spa before making critical design or pathway decisions.



**NOTE: WATKINS WELLNESS** recommends that the **CANTABRIA** be installed on a minimum 10 cm thick reinforced concrete pad or structurally sound deck able to support the "dead weight" found in the spa specification chart.

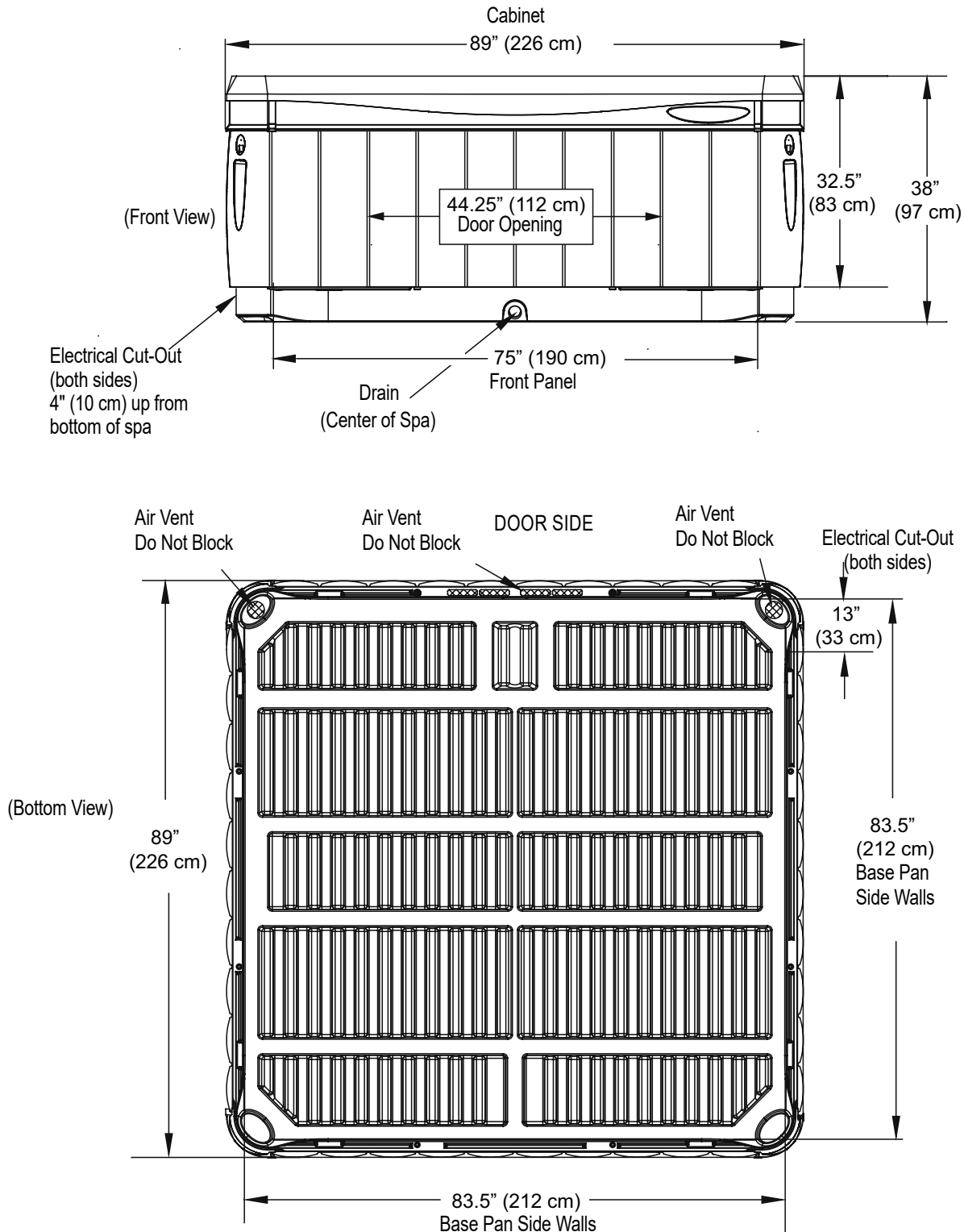
**WARNING:** The **CANTABRIA** must not be shimmed in any manner.



# GENEVA & NIAGARA

## Dimensions

NOTE: All dimensions are approximate; measure your spa before making critical design or pathway decisions.



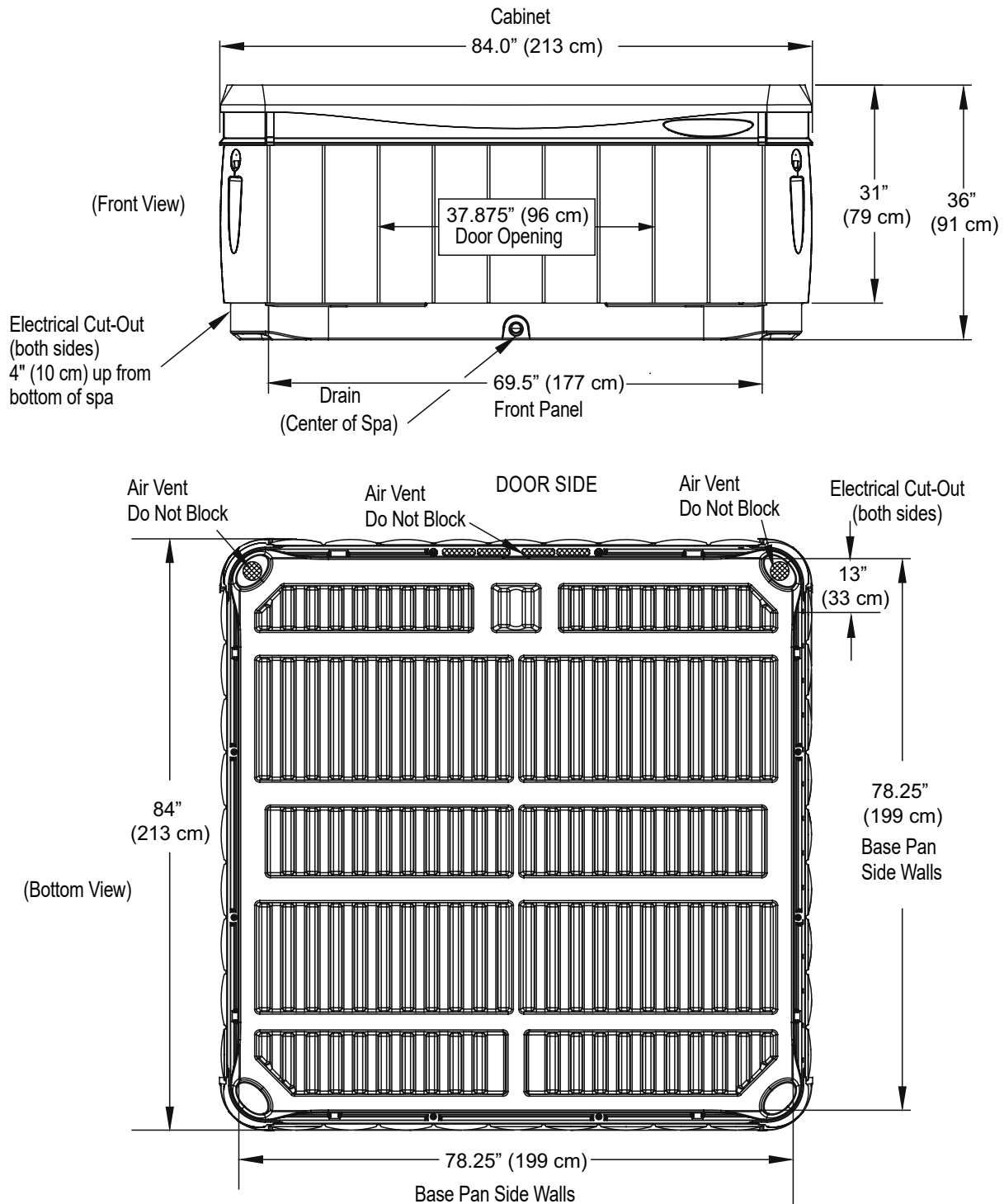
**NOTE:** WATKINS WELLNESS recommends that the **GENEVA & NIAGARA** be installed on a minimum 10 cm thick reinforced concrete pad or structurally sound deck able to support the "dead weight" found in the spa specification chart.

**WARNING:** The **GENEVA & NIAGARA** must not be shimmed in any manner.

# TAHITIAN & FLORENCE

## Dimensions

NOTE: All dimensions are approximate; measure your spa before making critical design or pathway decisions.



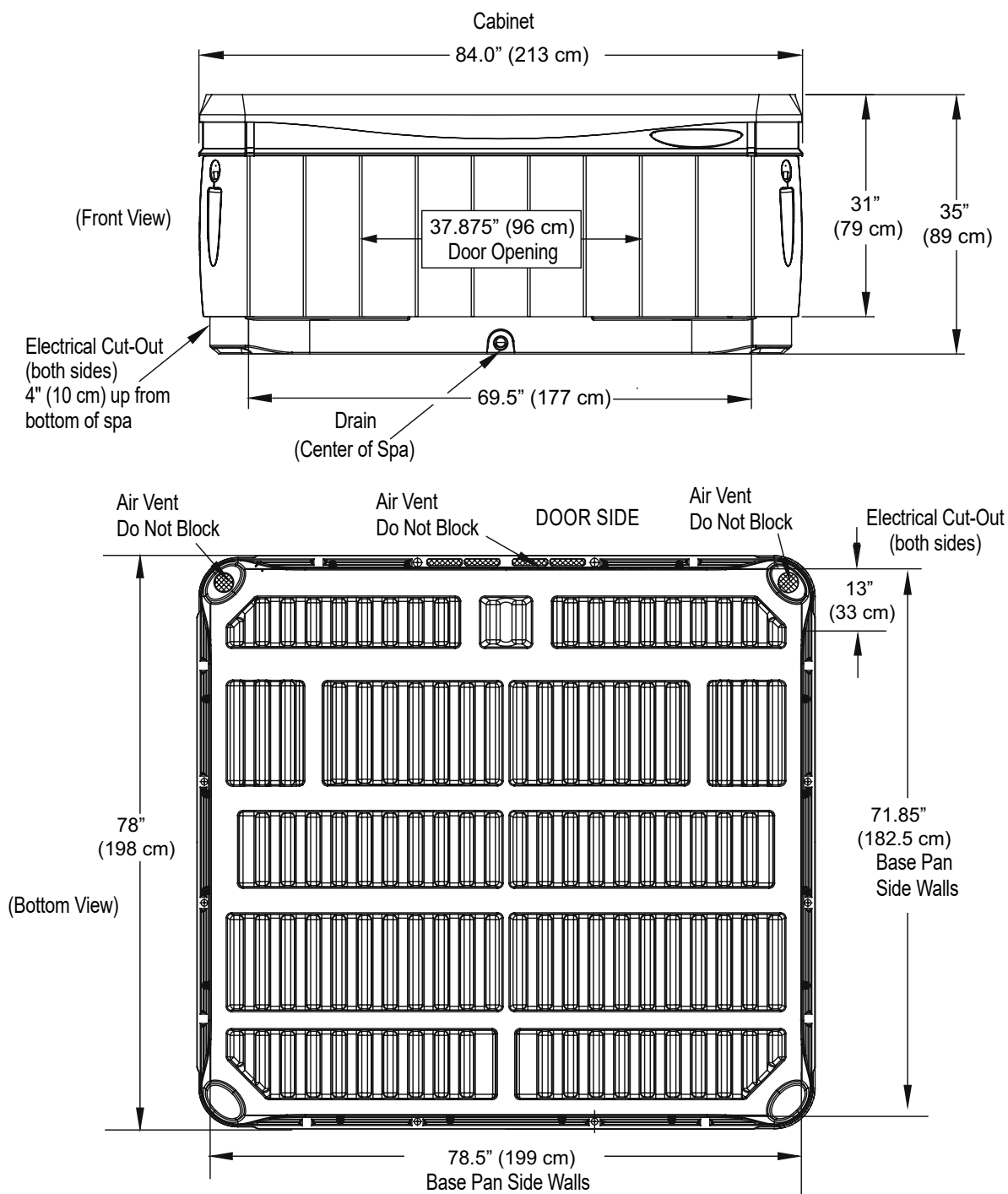
**NOTE: WATKINS WELLNESS** recommends that the **TAHITIAN** be installed on a minimum 10 cm thick reinforced concrete pad or structurally sound deck able to support the "dead weight" found in the spa specification chart.

**WARNING:** The **TAHITIAN** must not be shimmed in any manner.

# PROVENCE

## Dimensions

NOTE: All dimensions are approximate; measure your spa before making critical design or pathway decisions.



**NOTE: WATKINS WELLNESS** recommends that the **PROVENCE** be installed on a minimum 10 cm thick reinforced concrete pad or structurally sound deck able to support the "dead weight" found in the spa specification chart.

**WARNING:** The **PROVENCE** must not be shimmed in any manner.

# SERVICE INFORMATION

## GENERAL INFORMATION

Your **CALDERA** spa has been designed to provide years of trouble-free use. As with any appliance, problems may occasionally occur that require the expertise of a qualified service person. Though such simple repairs as resetting a GFCI switch or breaker, or resetting a high limit thermostat may not require a service call, they may indicate that a more serious condition exists. These conditions may require an experienced service person. Before calling for service, please refer to the Troubleshooting Guide. Always retain your original sales receipt for future reference.

## GFCI AND HIGH LIMIT THERMOSTAT

If your spa fails to operate at any time, first check the power supply to the spa.

Check each of the GFCI breakers in the subpanel. If a GFCI has tripped, reset it. If it will not reset, this may be an indication of a ground fault (short circuit) within the electrical components. Contact an Authorized Service Technician for a complete diagnosis.

If upon checking the GFCI's you find that they have not tripped, check the house breaker panel and ensure the main breaker for the electrical circuit supplying the spa has not tripped. If it has, this is an indication that the circuit was either overloaded or a ground fault exists between the breaker panel and the spa receptacle or subpanel. Contact a qualified electrician.

If upon checking the main house breaker and spa GFCI's you find no failures, check the high limit thermostat. To check it, simply turn off power to the spa for 30 seconds. This will automatically reset the high limit thermostat if it has tripped. If the spa energizes once you turn the power back on, this indicates reduced water flow through the heating system. Tripping of the high limit thermostat is normally a result of one or a combination of these problems. 1) clogged filter cartridge(s), 2) blockage within the system plumbing, 3) a non-functioning heater circulation pump, 4) power was not disconnected from the spa before it was drained, 5) an air lock in the plumbing lines. (The Power Indicator on the front of the spa's control panel will also be blinking if the high limit thermostat circuit has tripped.)

If the spa does not function after tripping and resetting the GFCI's or resetting the high limit thermostat, then the problem should be referred to an Authorized Service Technician. Refer to the Troubleshooting Guide for additional service information.

## HEATER AND INTEGRATED PRESSURE SWITCH

**WATKINS WELLNESS** unconditionally warrants the heater against any failure that would require replacement. This warranty's duration is equal to the time period identified in the Component Warranty. This warranty defines unconditional as warranty coverage without exception provided that the component has failed to operate properly within the spa's system. This means that conditions that would normally invalidate the limited warranty, such as water chemistry damage, do not apply to the heater.

It is important to note that the heater is protected by both the heater high limit thermostat circuit and the integrated pressure switch. The causes of heater high limit tripping are discussed in the previous section.

If the spa is not heating, the red and green lights are blinking, but the pump and light are operating, then the pressure switch may be open. Opening of the pressure switch is normally a result of one or a combination of these problems:

1. A clogged filter cartridge
2. Blockage within the system plumbing
3. Power was not disconnected to the spa before it was drained
4. An air lock in the plumbing lines
5. Circulation pump not properly working

Once the problem has been identified and corrected the pressure switch will close which will energize the heater.

## CIRCULATION PUMP AND CIRCULATION PUMP THERMAL CUT-OFF

The circulation pump is a dedicated, water cooled, energy efficient, quiet pump that provides continuous filtration for the spa. Since the pump is water cooled, it is equipped with a thermal cut-off to prevent the pump from being damaged by running hot when water is not present.

Reset the circulation pump's thermal cut-off by disconnecting power to the spa and allowing the pump to cool.

Tripping of the thermal cut-off is normally the result of one or a combination of these problems: 1) clogged filter cartridge(s), 2) blockage within the system plumbing, 3) power was not disconnected to the spa before it was drained, or 4) an air lock in the plumbing lines. Once the problem has been identified and corrected the pump thermal cut-off will be able to be reset which will allow it to operate normally.

## MISCELLANEOUS SERVICE INFORMATION

The control and high-limit thermostats are equipped with electronic sensors that are connected to the spa's plumbing. Never cut or kink the wires that connect the sensors to the thermostats within the control box.

The jet pump is equipped with a thermal overload cutoff switch that is designed to protect the pump from overheating. If the pump shuts itself off in an older spa, it could indicate failure of the pump motor bearings. If the pump shuts itself off in a new spa, it is usually the result of one or a combination of the following factors:

- Thermal overload: Although mass-produced, not all thermal overload cutoffs are exactly the same. Some are more sensitive than others and will shut the pump off at lower temperatures.
- High temperature: All **CALDERA** spa models are equipped with a jet pump shroud that vents the heat generated by the pump motor to the outside of the equipment compartment, and back into the spa water. If the vent is blocked by masonry, grass or debris, overheating of the jet pump may occur. Once the pump motor has cooled sufficiently and any blockage has been removed from the vent opening, the jet pump can be restarted.
- Friction: Sometimes the moving parts of a new pump are tight enough to cause heat build-up due to friction. After a normal break-in period, the pump will run cooler.
- Improper wiring: If the spa is connected with an extension cord, and/or the house wiring is undersized, the pump may starve for voltage and therefore may draw more amperage and generate excessive heat.



- If the pump is shutting down due to excessive heat, make sure the equipment compartment has adequate ventilation. The air gap at the bottom must not be blocked. Should your jet pump continue to shut off after short periods of use, contact a qualified service technician.

## ACTS INVALIDATING WARRANTY

The limited warranty is void if the **CALDERA** spa has been improperly installed, subjected to alteration, misuse, or abuse, or if any repairs on the spa are attempted by anyone other than an authorized representative of **WATKINS WELLNESS**. Alteration shall include any component or plumbing change, electrical conversion, or the addition of any non-approved sanitation or water purification device or heating system which contributes to component or unit failure or unsafe operating system. Misuse and abuse shall include any operation of the spa other than in accordance with **WATKINS WELLNESS** printed instructions, or use of the spa in an application for which it is not designed; specifically: use of the spa in a non-residential application; damage caused by operation\* of the spa at water temperatures outside the range of 1.5°C (35°F) and 49°C (120°F); damage caused by a dirty, clogged or calcified filter cartridge; damage to the spa surface caused by the use of tri-chloro chlorine, misuse of chemical tablets in a floater, acid, or any other spa chemicals or spa surface cleaners which are not recommended by **WATKINS WELLNESS**; damage caused by allowing undissolved spa sanitizing chemicals to lie on the spa surface (no spa surface material can withstand this kind of abuse); damage to components or spa surface caused by improper water chemistry maintenance; and damage to the spa surface caused by leaving the spa uncovered while empty of water and in direct exposure to sunlight (this may cause solar heating distress in warm weather regions). These are considered abuses and may invalidate this warranty.

\*Operation of the spa does not mean “use” of the spa! **WATKINS WELLNESS** does not recommend using the spa if the water temperature is above or below the spa's control panel temperature range.

## DISCLAIMERS

**WATKINS WELLNESS** shall not be liable for loss of use of the **CALDERA** spa, or other incidental, consequential, special, indirect, or punitive costs, expenses or damages, which may include but are not limited to the removal of a permanent deck or other custom fixture, or the necessity for crane removal. Any implied warranty shall have a duration equal to the duration of the applicable limited warranty stated above. Some states do not allow limitations on how long an implied warranty lasts. Under no circumstances shall **WATKINS WELLNESS** or any of its representatives be held liable for injury to any person or damage to any property, however arising.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

## CUSTOMER SERVICE

If you have any questions about any aspect of your **CALDERA** spa set-up, operation, or maintenance that have not been answered by this manual, consult your **CALDERA** dealer.

## TROUBLESHOOTING

Should you experience any problem whatsoever, do not hesitate to contact your authorized **CALDERA** dealer. Located below and on the next page are some tips to help you to diagnose and rectify some more common sources of trouble yourself, if you choose to do so.

### SPA WATER MAINTENANCE TROUBLESHOOTING GUIDE

Problem	Probable causes	Solutions
Cloudy Water	<ul style="list-style-type: none"> <li>• Dirty filters</li> <li>• Excessive oils / organic matter</li> <li>• Improper sanitization</li> <li>• Suspended particles / organic matter</li> <li>• Overused or old water</li> </ul>	<ul style="list-style-type: none"> <li>• Clean filters</li> <li>• Shock spa with sanitizer</li> <li>• Add sanitizer</li> <li>• Adjust pH and/or alkalinity to recommended range</li> <li>• Run jet pump(s) and clean filters</li> <li>• Drain and refill the spa</li> </ul>
Water Odor	<ul style="list-style-type: none"> <li>• Excessive organics in water</li> <li>• Improper sanitization</li> <li>• Low pH</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer</li> <li>• Add sanitizer</li> <li>• Adjust pH to recommended range</li> </ul>
Chlorine Odor	<ul style="list-style-type: none"> <li>• Chloramine level too high</li> <li>• Low pH</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer</li> <li>• Adjust pH to recommended range</li> </ul>
Musty Odor	<ul style="list-style-type: none"> <li>• Bacteria or algae growth</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer—if problem is visible or persistent, drain, clean and refill the spa</li> </ul>
Organic buildup / scum ring around spa	<ul style="list-style-type: none"> <li>• Build-up of oils and dirt</li> </ul>	<ul style="list-style-type: none"> <li>• Wipe off scum with clean rag – if severe, drain the spa, use a spa surface and tile cleaner to remove the scum, and refill the spa</li> </ul>
Algae Growth	<ul style="list-style-type: none"> <li>• High pH</li> <li>• Low sanitizer level</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer and adjust pH</li> <li>• Shock spa with sanitizer and maintain sanitizer level</li> </ul>
Eye Irritation	<ul style="list-style-type: none"> <li>• Low pH</li> <li>• Low sanitizer level</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust pH</li> <li>• Shock spa with sanitizer and maintain sanitizer level</li> </ul>
Skin Irritation / Rash	<ul style="list-style-type: none"> <li>• Unsanitary water</li> <li>• Free chlorine level above 5 ppm</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer and maintain sanitizer level</li> <li>• Allow free chlorine level to drop below 5 ppm before spa use</li> </ul>
Stains	<ul style="list-style-type: none"> <li>• Total alkalinity and/or pH too low</li> <li>• High iron or copper in source water</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust total alkalinity and/or pH</li> <li>• Use a metal deposit inhibitor</li> </ul>
Scale	<ul style="list-style-type: none"> <li>• High calcium content in water – total alkalinity and pH too high</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust total alkalinity and pH – if scale requires removal, drain the spa, scrub off the scale, refill the spa and balance the water</li> </ul>

## GENERAL OPERATION TROUBLESHOOTING GUIDE

Problem	Probable causes	Solutions
Entire spa is inoperative	<ul style="list-style-type: none"> <li>Power failure</li> <li>GFCI tripped</li> <li>Heater high-limit thermostat tripped</li> <li>Spa lock activated</li> </ul>	<ul style="list-style-type: none"> <li>Check power source</li> <li>Reset GFCI; call for service if it will not reset</li> <li>Disconnect power for at least thirty seconds to reset heater high limit. If it will not reset, check for clogged filters. If tripping continues, call for service.</li> <li>Deactivate spa lock</li> </ul>
Spa does not heat; jets and light operate (Orange logo "Ready", and Gray logo "Power" indicators are blinking)	<ul style="list-style-type: none"> <li>Integrated pressure switch open</li> <li>Circulation pump thermal cut-off tripped</li> </ul>	<ul style="list-style-type: none"> <li>Check for clogged filters. Integrated pressure switch will reset when the flow of water through the heater has been restored. Call for service if the heater trips frequently.</li> <li>Check for clogged filters or air locks in plumbing. Disconnect power to the spa, allow circulation pump to cool. Circulation pump thermal cut-off will reset when pump has cooled and power is reapplied. Call for service if circulation pump thermal cut-off trips frequently.</li> </ul>
Jets weak or surging	<ul style="list-style-type: none"> <li>Spa water level too low</li> <li>Filters clogged</li> <li>Air valves are closed</li> </ul>	<ul style="list-style-type: none"> <li>Add water</li> <li>Clean filters</li> <li>Open air valves</li> </ul>
Lights inoperative	<ul style="list-style-type: none"> <li>Spa lock activated</li> <li>Light wiring or assembly is faulty</li> </ul>	<ul style="list-style-type: none"> <li>Deactivate spa lock</li> <li>Call for service, replace light assembly</li> </ul>
Spa not heating properly	<ul style="list-style-type: none"> <li>Temperature set too low</li> <li>Spa cover improperly positioned</li> <li>Dirty Filter</li> <li>Summer Timer On</li> </ul>	<ul style="list-style-type: none"> <li>Set control panel to a higher temperature.</li> <li>Align spa cover</li> <li>Clean filter</li> <li>Turn summer timer mode to off position</li> </ul>
Gray Logo "Power" indicator blinking	<ul style="list-style-type: none"> <li>Heater high-limit thermostat tripped</li> </ul>	<ul style="list-style-type: none"> <li>Disconnect power for at least thirty seconds to reset heater high limit. If it will not reset, check for clogged filters. If tripping continues, call for service.</li> </ul>
Orange Logo "Ready" indicator blinking	<ul style="list-style-type: none"> <li>Temperature sensor problem</li> </ul>	<ul style="list-style-type: none"> <li>Disconnect power for at least thirty seconds. If blinking continues, call for service.</li> </ul>
Pump motor will not function	<ul style="list-style-type: none"> <li>Motor overload condition</li> <li>Control switch failure if jet symbol does not come on</li> </ul>	<ul style="list-style-type: none"> <li>Let cool for one hour. Motor overload will reset automatically. If problem persists, contact your <b>CALDERA</b> dealer</li> <li>Disconnect spa and contact your <b>CALDERA</b> dealer</li> </ul>
Noisy pump or motor	<ul style="list-style-type: none"> <li>Low water level</li> </ul>	<ul style="list-style-type: none"> <li>Add water to normal level (2.5 cm above highest jet)</li> </ul>
Pump motor runs, but low or no water/ jet pressure	<ul style="list-style-type: none"> <li>Air control valve closed or blocked</li> <li>Low water level</li> <li>Dirty filter cartridge</li> <li>Jet blocked</li> <li>Clogged suction or skimmer basket</li> </ul>	<ul style="list-style-type: none"> <li>Open or clean air valve</li> <li>Add water to normal level (2.5 cm above highest jet)</li> <li>Clean filter cartridge</li> <li>Remove jet face eyeball and clean orifice</li> <li>Clean suction cover or skimmer basket</li> </ul>
Diverter valves are difficult to turn	<ul style="list-style-type: none"> <li>Sand or grit inside valves</li> </ul>	<ul style="list-style-type: none"> <li>Clean and lubricate valve per diverter valve maintenance instructions.</li> </ul>
After filling or refilling the spa: a jet pump is operating, but water is not flowing from any of its jets	<ul style="list-style-type: none"> <li>Pump is not properly primed</li> </ul>	<ul style="list-style-type: none"> <li>Turn off power to the spa at the breaker and remove the equipment compartment door.</li> <li>Loosen the union on the top of the pump(s) to allow the air to escape, and then hand-tighten the union(s).</li> <li>Turn power back on, activate the pump, and check to make sure the union is tight enough to keep it from leaking. Replace the equipment doors.</li> </ul> <p>OR: Remove and reinstall the <b>FROG</b> cap.</p>

## DOOR PANEL REMOVAL

The illustrations are to be used as a reference only (your spa may look different).

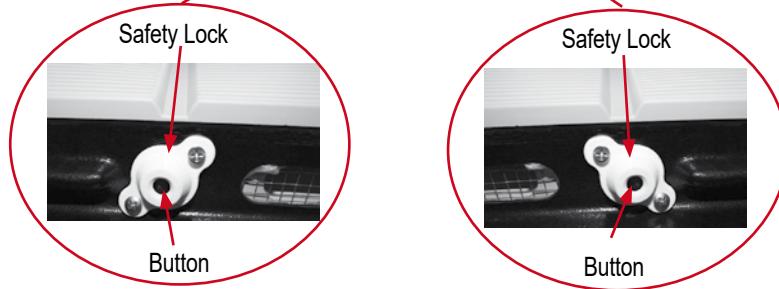
1

Locate the two buttons below the front panel on the same side as the Main Control Panel



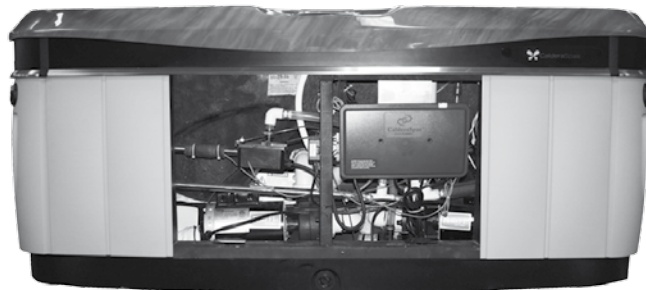
2

Push up and hold one of the buttons using an Allen wrench less than  $\frac{1}{4}$ " (6 mm) in width or small screwdriver into the center of the safety lock then pull the door panel away from the spa next to that button location. Repeat procedure on second button.



3

Pull bottom away from spa, lower slightly and remove from spa. Place door panel in cool shaded place.



---

## DOOR PANEL REPLACEMENT

1

Raise door panel placing top under Stainless border with bottom slightly away from spa.



2

Push door panel against spa allowing it to rest above the wood frame. Repeat on other side of door panel



3

Push bottom of door panel all the way in making it even with existing panels.

If necessary, slide door panel from side to side making the spacing even on both sides of the door.

# UTOPIA SPECIFICATIONS

This manual contains installation, operating, maintenance, and service information for the following CALDERA spas

	Footprint dimensions	Height	Effective filter area	Heater (Watts)	Water capacity	Dry weight	Filled weight*	Dead weight	Electrical Requirements
<b>CANTABRIA</b>	231 cm x 274 cm	97 cm	10 m <sup>2</sup>	3,000	2,325 liters	595 kg	3,560 kg	680 kg/m <sup>2</sup>	230 volt, 16 and 25 amp Single phase GFCI protected circuit
<b>GENEVA</b>	226 cm x 226 cm	97 cm	10 m <sup>2</sup>	3,000	1,550 liters	455 kg	2,485 kg	590 kg/m <sup>2</sup>	230 volt, 16 and 25 amp Single phase GFCI protected circuit
<b>NIAGARA</b>	226 cm x 226 cm	97 cm	10 m <sup>2</sup>	3,000	1,525 liters	450 kg	2,535 kg	600 kg/m <sup>2</sup>	230 volt, 16 and 25 amp Single phase GFCI protected circuit
<b>TAHITIAN</b>	213 cm x 213 cm	91 cm	10 m <sup>2</sup>	3,000	1,425 liters	410 kg	2,315 kg	610 kg/m <sup>2</sup>	230 volt, 16 and 25 amp Single phase GFCI protected circuit
<b>FLORENCE</b>	213 cm x 213 cm	91 cm	10 m <sup>2</sup>	3,000	1,365 liters	410 kg	2,235 kg	585 kg/m <sup>2</sup>	230 volt, 16 and 25 amp Single phase GFCI protected circuit
<b>PROVENCE</b>	198 cm x 213 cm	89 cm	7 m <sup>2</sup>	3,000	1,005 liters	395 kg	1,715 kg	515 kg/m <sup>2</sup>	230 volt, 16 and 25 amp Single phase GFCI protected circuit

CAUTION: **WATKINS WELLNESS** suggests a structural engineer or contractor be consulted before the spa is placed on an elevated deck.

\* NOTE: The "Filled weight" and "Dead weight" of the spa includes the weight of the occupants (assuming an average occupant weight of 80.0 kg).

The GFCI may also be referred to as an ELCB (Earth Leakage Circuit Breaker) or as an RCD (Residual Current Device).

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## WatkinsWellness™

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