



celtic
HOT TUBS



2023 HOT TUB OWNER'S MANUAL

THANK YOU for joining the Celtic Hot Tub family, we appreciate your business!

Our design, engineering, and production team have ensured that only the finest quality materials and craftsmanship have been combined to provide you with years of enjoyment!

Please take a few minutes to read this owner's manual. It contains important SAFETY, installation, operating, and maintenance instructions.

Date Purchased _____

Date Installed _____

Dealer _____

Address _____

Telephone _____

Box for serial #/model



Scan to Register
Your Hot Tub Warranty



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Safety Instructions



WARNING! IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS

1. Avoiding Risks to Children

- Extreme caution must be exercised to prevent unauthorized access by children.
- Be sure the hot tub cover is closed and securely locked when not in use. Every Celtic Hot Tub is equipped with a locking cover that meets the ASTM F1346-91 standard for safety covers. Keep cover keys out of reach of children.
- Never allow children to use the hot tub without adult supervision.

2. Avoiding Risk of Electrocution

- Do not permit electrical appliances within 5 feet of the hot tub.
- Test the GFCI prior to every use of the hot tub.
- Do not use the hot tub with the equipment area door open.
- Do not use an extension cord to connect the hot tub to its power source.
- Disconnect the hot tub from its power source before draining the spa or servicing electrical components.
- Do not open the electrical control box. There are no user serviceable parts inside.

2. Increased Side Effects of Medication

- DRUGS AND ALCOHOL CAN GREATLY INCREASE HEALTH RISKS AND HYPERTHERMIA IN A HOT TUB.
- Persons with medical conditions or taking medication should consult their doctor prior to using a hot tub. Some medications may cause drowsiness, or affect blood pressure, heart rate or circulation.

3. Reduce Risk of Injury

- Do not use the hot tub immediately after a strenuous workout.
- Extended immersion in a hot tub could be injurious to your health.

- Pregnant or possibly pregnant women should always consult their doctor before using a hot tub.
- Never allow anyone to dive or jump into a hot tub.



- Always enter and exit your hot tub feet first, slowly and carefully. Floors and surfaces can be slippery.
- People with medical conditions such as heart disease, high or low blood pressure, circulatory system issues, obesity, or pregnant women should consult a doctor prior to using a hot tub.
- DO NOT Remove suction or filter covers. Water suction through the drains and skimmer is very strong when pumps are operating at high speed. Damaged or missing drain and skimmer covers can be dangerous entrapping small children and people as well as long hair. Should anyone or anything become entrapped in a drain, skimmer or any other fitting, **IMMEDIATELY TURN OFF THE HOT TUB AT THE ELECTRICAL SOURCE.**
- People with infectious diseases or sores should consult their doctor prior to using a hot tub.
- Always install cartridge filters prior to filling the hot tub. If you are changing a filter when the hot tub is full of water, be sure to turn off the hot tub before removing the dirty cartridge filter and installing the clean cartridge filter.

Safety Instructions



**WARNING! IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS**

5. Avoiding Risk of Hyperthermia

- Hyperthermia may occur when the internal body temperature rises several degrees above the normal body temperature of 98.6 degrees Fahrenheit.
- Always check the water temperature with a thermometer before entering the hot tub.
- Water temperatures above 100 degrees Fahrenheit may be injurious to your health. Never exceed 104 degrees Fahrenheit.
- Hot water speeds up the effect of alcohol, drugs and other medications. The use of alcohol, drugs or medication before or during hot tub use may lead to drowsiness or unconsciousness that could lead to drowning.
 - SYMPTOMS OF HYPERTHERMIA INCLUDE:
 1. Drowsiness
 2. Increased internal body temperature
 - EFFECTS OF HYPERTHERMIA:
 1. Unaware of possible dangers
 2. Failure to perceive excessive heat
 3. Failure to recognize need to leave Hot Tub
 4. Loss of ability to leave Hot Tub
 5. Fetal damage in pregnant mothers

Tub Placement

Proper placement of your hot tub will add to the enjoyment. Please consider the following:

1. When viewed from the inside of the house or patio, how will the hot tub enhance the yard and landscaping?
2. Will the location provide the desired privacy?
3. When in the hot tub, will you have the desired view?
4. How will the electrician run the power line?
5. Will you have a safe walking path to the hot tub in cold weather when the ground may be slippery?
6. Check local building codes for any electrical or set back requirements.
7. When placing your hot tub indoors, it will increase the humidity in the enclosed area. A ventilation fan may be required to exhaust the steam from the hot tub. All finish materials like sheetrock and trim boards should be capable of withstanding the additional humidity.

Preparing for Delivery

Preplanning for your hot tub for delivery will help make the process flow smoothly, here are a few tips:

1. Your hot tub requires the support of a flat level surface. A 3.5 in. thick concrete pad is best. There are other available options, consult your dealer to select the proper pad to suit your needs.
2. When installing your hot tub on a deck, make sure your deck was designed to support 85 lbs. per square foot.
3. Many cities require that the hot tub be in a fenced area with a self-closing and latching gate. Check with your local building department.
4. Make sure there is a clear path for delivery of the hot tub. You may need to adjust landscaping, remove gates, etc.

Electrical Installation and Requirements for 110 Volt Plug-In Models

Please have your licensed electrician read and follow these instructions prior to installation.

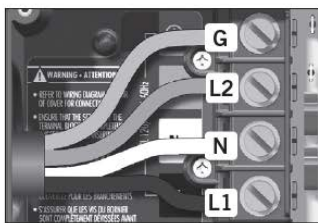
It is the responsibility of the hot tub owner to make sure that a qualified electrician wires your Celtic Hot Tub in accordance with the National Electric Code and all applicable local electrical codes. All electrical work should be done by an experienced, licensed electrician. We recommend the use of appropriate electrical conduit, fittings, and wire for all circuits. All Celtic Hot Tub models are designed to run on 60hz.

110v units using a 15 amp GFCI (Ground Fault Circuit Interrupter) cord must be plugged into a dedicated circuit. A dedicated circuit is one that has ONLY the hot tub connected to it, nothing else.

Converting a 110v System to a 220 System

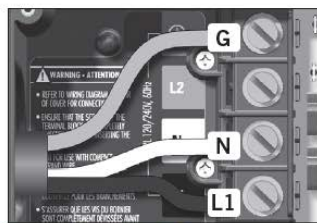
2- Connect the main power

2.a- Electrical wiring



For 240 V (4 wires)

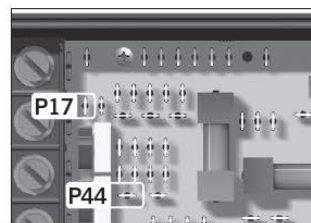
Connect wiring of the electrical service box GFCI. Neutral wire is mandatory.



For 120 V (*3 wires)

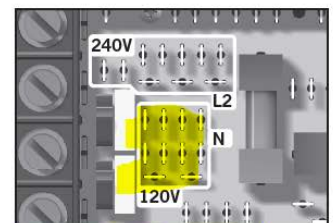
* If connected to a 3 wire system, any 240 V components will not work.

2.b- Heater & pump/accessories voltage



Heater voltage

Verify BROWN common wire connection to tab:
P17 - 240 V
P44 - 120 V



Pumps & accessories voltage

Verify each WHITE common wire connection to tab:
N - 120 V
L2 - 240 V pump/acc.

WARNING! All connections must be made by a qualified electrician in accordance with the national electrical code and any state, provincial or local electrical code in effect at the time of the installation. This product must always be connected to circuit protected by a Ground Fault Circuit Interrupter (GFCI).

Electrical Installation and Requirements

220 Volt Models Require "Hard Wire" Hook-ups

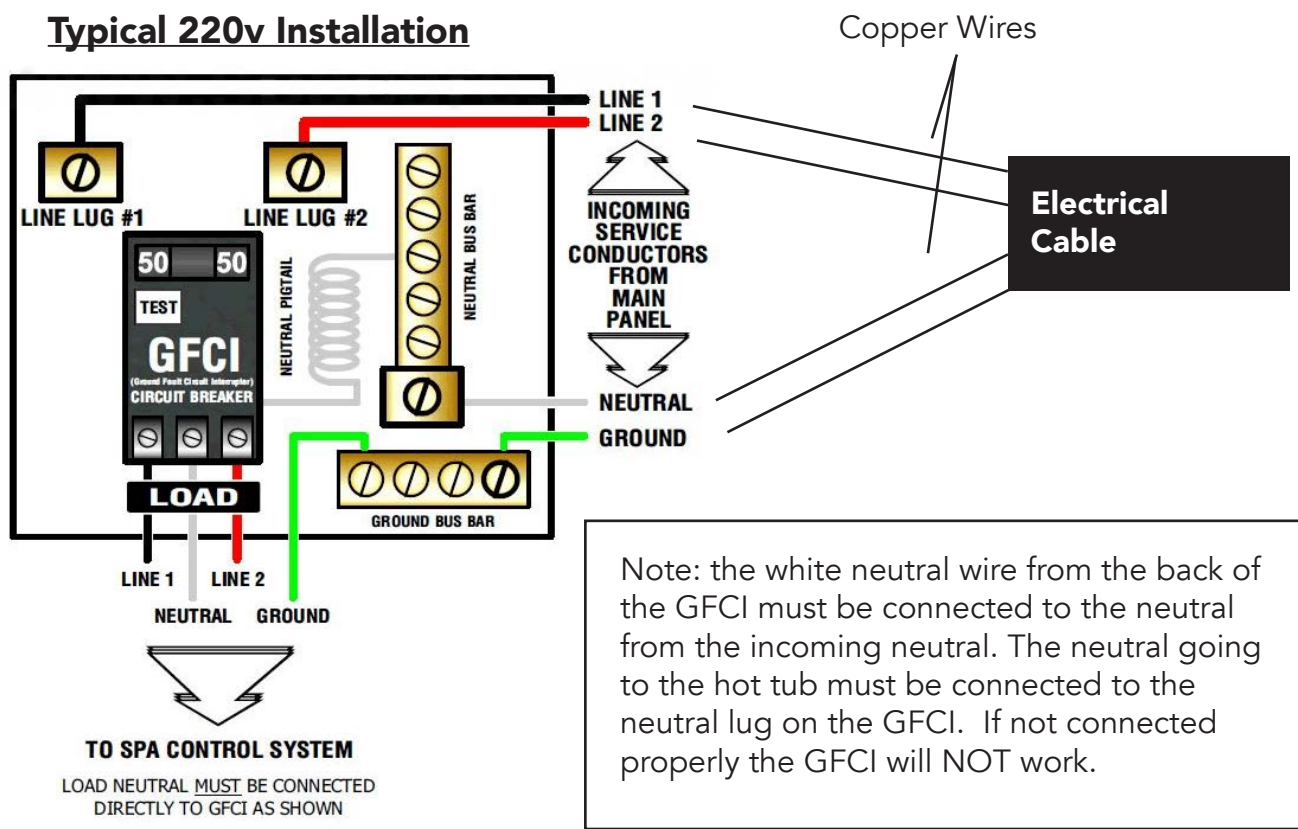
Please have your licensed electrician read and follow these instructions prior to installation.

It is the responsibility of the hot tub owner to make sure that a qualified electrician wires your Celtic Hot Tub in accordance with the National Electric Code and all applicable 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 Celtic Hot Tub models are designed to run on 60hz.

220v units require a 40 or 50 amp GFCI breaker on a dedicated circuit. The GFCI protected breaker must be installed in a dedicated sub-panel that is easily accessible to the hot tub users. Installed at a minimum of 5 feet from the hot tub, but within view of the hot tub.

Please have your electrician review these wiring diagrams to ensure the GFCI and pack are properly connected.

Typical 220v Installation



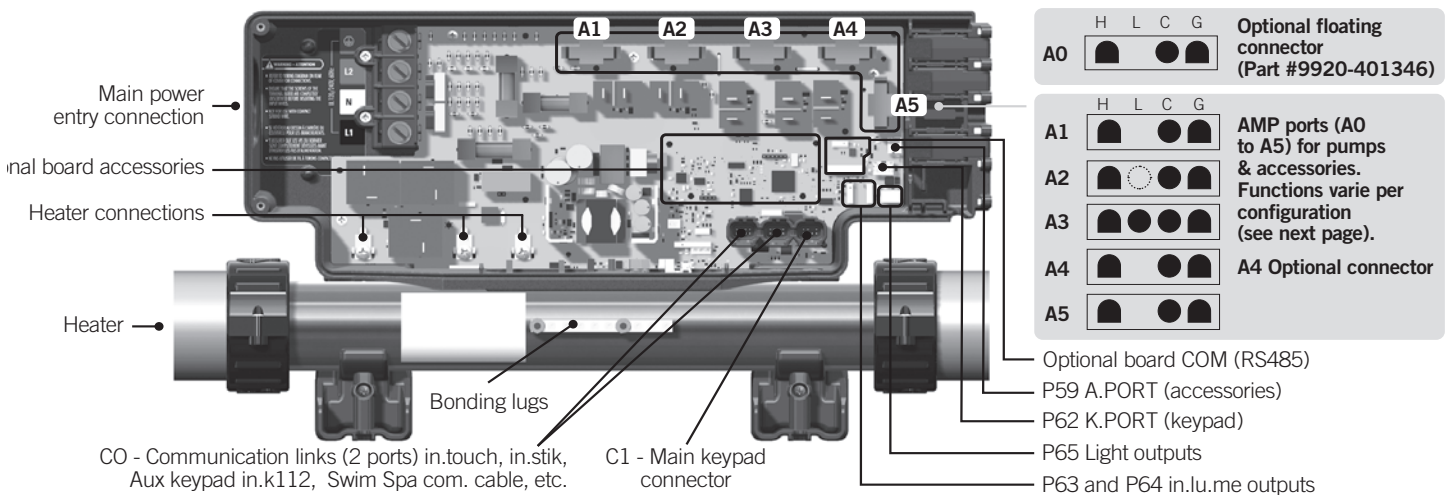
Electrical Installation and Requirements

Your Celtic Hot Tub is provided with a bonding lug to accommodate connection to a local ground, such as a metal cold water pipe or length of rebar staked into the ground.

IT'S IMPORTANT TO USE A LOCALLY LICENSED ELECTRICIAN, WHO WILL COMPLY TO LOCAL CODES. Electrical connections made incorrectly or using improperly sized wire can cause damage to the pumps, control pack, or other electrical components and will void the warranty and create unsafe conditions.

The GFCI should be tested frequently.

Caution: always disconnect the electricity before servicing electrical components or removing the door or access panel



Celtic Hot Tubs Resort Series

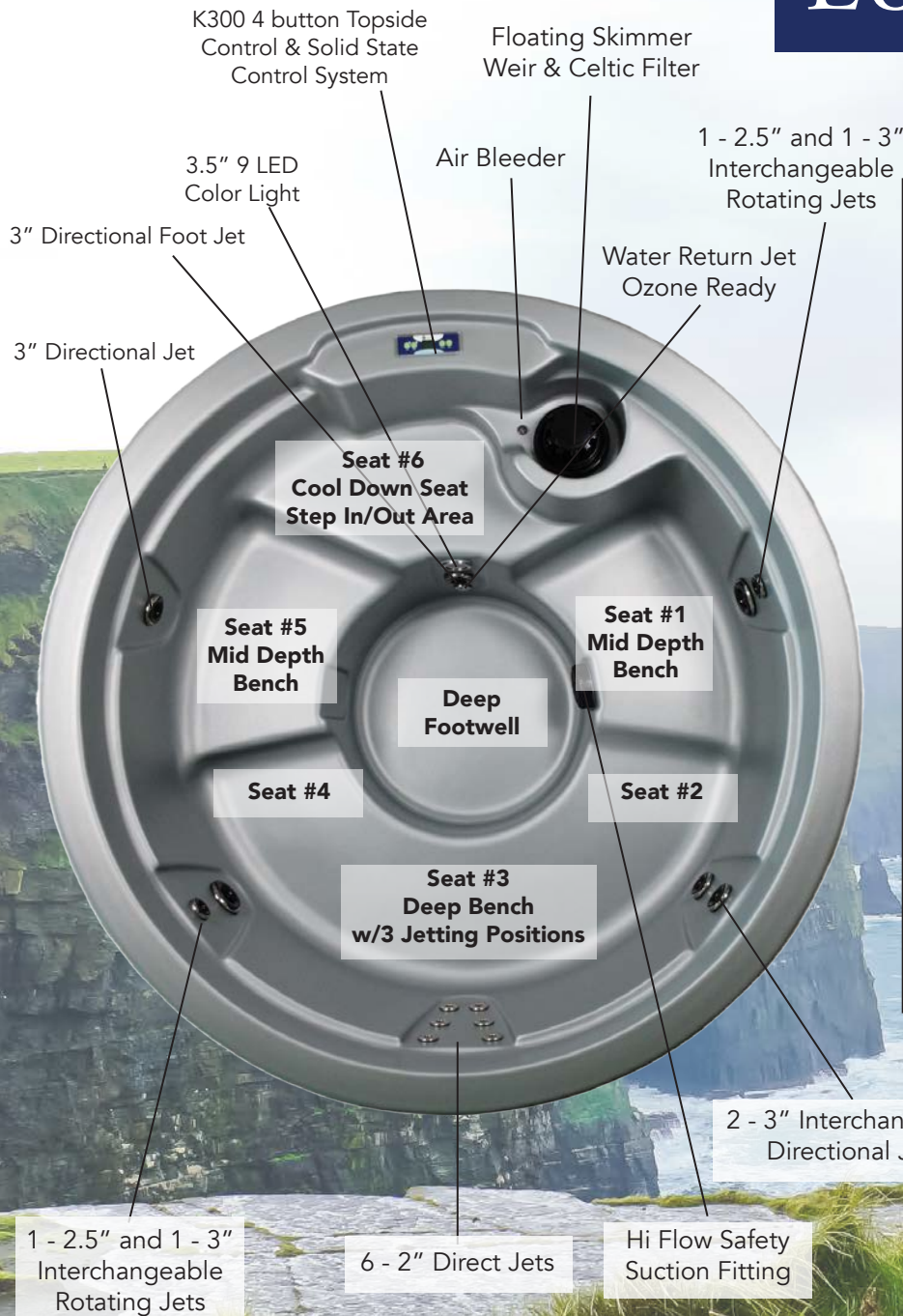
These hot tubs are often found in settings created for vacation and resort lifestyles.

Whether it's a lake side cottage or a top of the mountain cabin, these tubs are designed and built for heavy use. Reliability is a must, and for those unfamiliar with operating a hot tub, the Resort Series tubs are designed with intuitive controls that make them easy to operate.

Note: a 110v cord is a dealer option on Resort Series Tubs.

LUNA 114 RS

RESORT SERIES

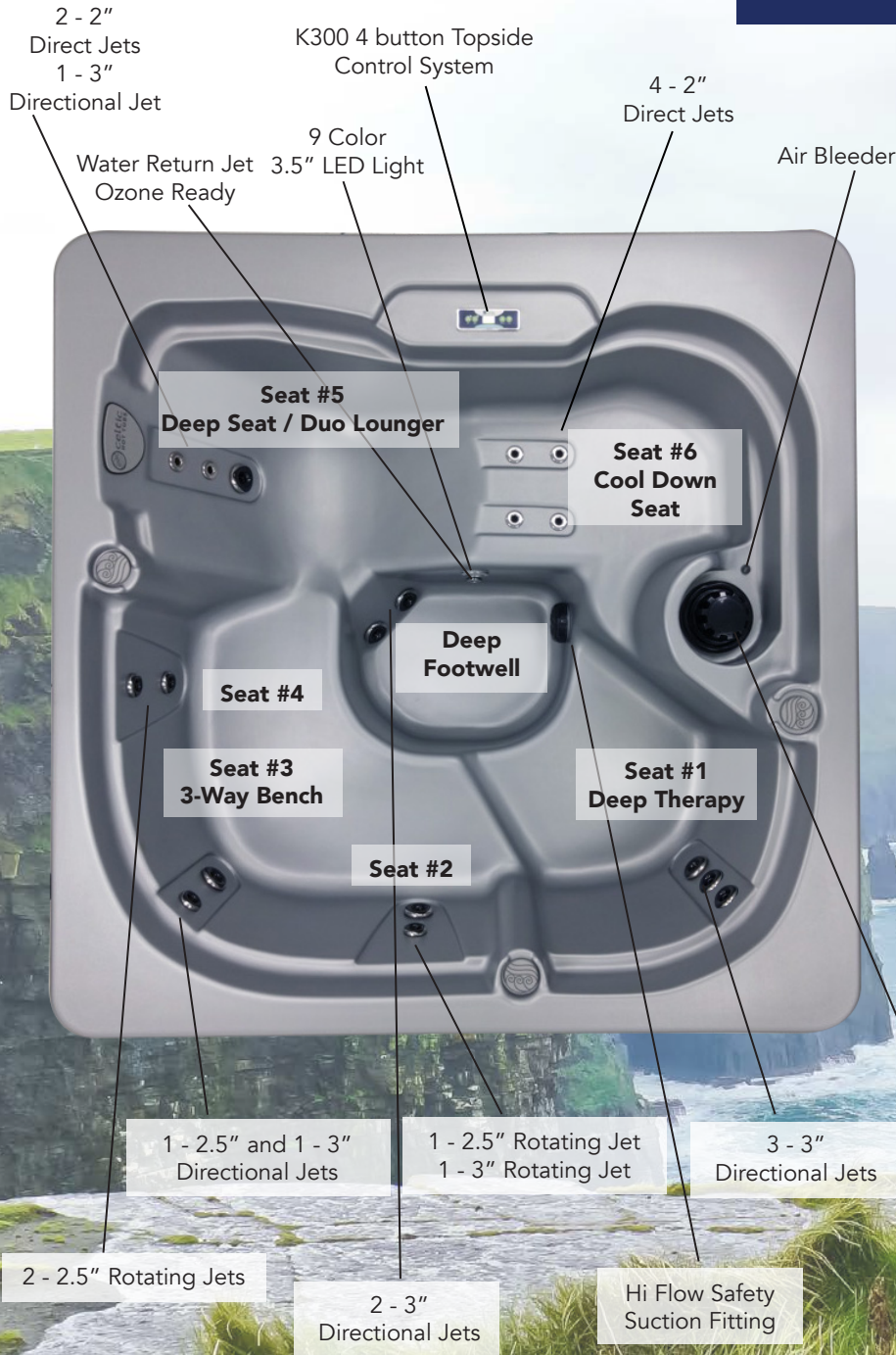


| | |
|----------------------------|---|
| Weight | 360 lbs / 2,684 lbs filled |
| Measurement | 34" Depth / 78" Diameter |
| Water Capacity | 280 gal |
| Electrical Requirements | 110v / 15 amp Dedicated Circuit |
| Jet Pump | 2 HP / 2 Speed / 110v |
| Convertible Voltage Heater | 110v = 1KW Heat 220v = 4KW On Demand |
| Jets | 14 |
| Topside Control | k300 Programmable Solid State System |
| Filtration | Micro Screen Disposable Cartridge |
| Lighting | 9 LED Color Light |
| Interior Shell | High Density Polyethylene Weatherable & Strong |
| Exterior Cabinet | Celtic Shield Gray |
| In.Touch Remote | Optional |
| Celtic Clean | N/A Ozone Ready |
| Cover | Marine Grade Vinyl |
| Color | Titanium |

Like sitting around a campfire, this original round hot tub shape is likely the most family-friendly, comfortable, and open seating concept in the world of hot-tubbing!

MYSTIC 118 RS

RESORT SERIES



| | |
|----------------------------|---|
| Weight | 495 lbs / 3,317 lbs filled |
| Measurement | 34" Depth / 78" Square |
| Water Capacity | 340 gal |
| Electrical Requirements | 110v / 15 amp Dedicated Circuit |
| Jet Pump | 2 HP / 2 Speed / 110v |
| Convertible Voltage Heater | 110v = 1KW Heat 220v = 4KW On Demand |
| Jets | 18 |
| Topside Control | k300 Programmable LED Color System |
| Filtration | Micro Screen Disposable Cartridge |
| Lighting | 9 LED Color Light |
| Interior Shell | High Density Polyethylene Weatherable & Strong |
| Exterior Cabinet | Celtic Shield Gray |
| In.Touch Remote | Optional |
| Celtic Clean | N/A Ozone Ready |
| Cover | Marine Grade Vinyl |
| Color | Titanium |

All Celtic Hot Tubs feature the "Celtic Shield Interior." This inside shell is made of high density polyethylene which is known best for its outstanding strength and high impact resistance. Highly chemical and UV resistant, HDPE is the perfect material for a hot tub shell. From a practice standpoint, the textured surface provides a more stable seating and slip resistant underwater surface, also safer for the kids as they move around the tub. Unlike high gloss finishes, this texture hides water spots and fingerprinting!

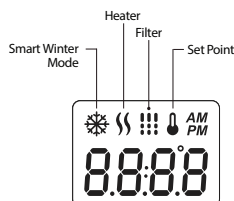
Luna 114RS & Mystic 118RS Operation and Use Instructions

Your Celtic Hot Tub has a variety of controls located above the waterline for customizing your massage and filtration. Please see below for operation instructions:

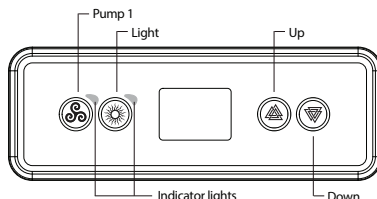


in.k300™ Compact full-function keypad

The Quick Reference Card provides an overview of your spa's main functions and the operations accessible from your digital keypad. This QRC depicts a generic overlay, custom versions may vary.



1 Pump Model



Spa Functions



Off Mode

Pressing Pump 1 for 5 seconds will enable the Off mode. This mode allows you to stop all outputs including automatic functions such as filter cycle, heat request and smart winter mode for 30 minutes to perform quick spa maintenance. When Off mode is active, the display will toggle between the "OFF" message, the clock and the water temperature. The spa light will flash for a few seconds before the end of the 30 minutes to warn you that the system is about to resume its normal operation. Press Pump 1 or Pump 2 (if available) to restart the system before the expiration of the 30 minute delay. When the system resumes its normal operation, the display shows "On" for 3 seconds.



Pump 1

Press Pump 1 key to turn Pump 1 on at low speed. Press a second time to turn pump to high speed (with a dual-speed pump*). A third time turns pump off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

The "Pump 1" indicator lights up when Pump 1 is on. With a dual-speed pump, the indicator will flash when pump 1 is on at low speed.



Light key

Press Light key to turn light on. A second press turns light off. A built-in timer automatically turns light off after 2 hours, unless it has been manually deactivated first.

The "Light" indicator lights up when light is on.



Up/Down keys

Use Up or Down key to set desired water temperature. The temperature setting will be displayed for 2 seconds to confirm your new selection.

2 pump spas have a combined Up/Down key. Hold the button to increase the parameter and release the button to stop. Hold the button again to decrease the parameter.

The "Set Point" icon indicates that the display shows the desired temperature, NOT the current water temperature!

Programming Steps



Program menu

The program menu is accessible by holding down the Light key for 5 seconds. In the program menu the following parameters can be set: clock, the filter or purge cycles, economy mode and temperature units. While you are in the program menu, use the Up or Down key to adjust the parameters and use the Light key to jump to the next parameter. The changes will be saved after the confirmation of the last parameter only. If there is no action taken for 10 seconds, the system will exit the program menu without saving any changes.



Setting the clock

Enter the program menu by holding down the Light key for 5 seconds. The display will show the current clock setting with the hour flashing. Depending on factory settings your system may be set to 24-hour time or 12-hour time.

Setting the hour: Use the Up or Down keys to adjust the hours. Press the Light key to jump to the next parameter, the minutes.

Setting the minutes: Use the Up or Down keys to adjust the minutes. Press the Light key to jump to the next parameter, the filter or purge start time (FS).

Programming the filter/ purge cycles

Depending on system configuration your spa will perform either a filter or a purge cycle. The filter cycle menu consists of the following parameters: the start time (FS), the duration (Fd) and the frequency (FF). The purge cycle menu consists of the following parameters: the start time (FS) and the frequency (FF).

A filter cycle consists of starting all the pumps and blower in high speed for 1 minute (purge step) then, the pump associated with the filter will run in low speed for the remaining duration of the filter cycle (clean step). A purge cycle is used when the spa is equipped with a 24 hour circulation pump which provides a continuous clean step. It consists of starting all the pumps and blower in high speed for 1 minute.

Luna 114RS & Mystic 118RS Operation and Use Instructions



Setting filter or purge cycle start time

The display will show F5xx, "xx" representing the starting hour of the cycle. Use the Up or Down key to adjust the hours. Use the Light key to jump to the next parameter, filter duration (Fd).



Setting filter cycle duration

(not available on purge systems)
The display will show Fdxx, "xx" representing the duration in hours of the filter cycle. Use the Up or Down key to adjust the duration. Use the Light key to jump to the next parameter, filter or purge frequency (FF).
0 = no filtration
24 = continuous filtration
It is not recommended to set this to "0".



Setting filter or purge cycle frequency

The display will show FFxx, "xx" representing the number of cycles per day. Use the Up or Down key to adjust the frequency. Use the Light key to jump to the next parameter, economy mode (EP).

The "Filter cycle" indicator lights up when filter is on and flashes when suspended.



Setting economy mode

This mode allows you to lower the temperature set point of the spa by 20 °F (11 °C) during a certain period of the day. The display will show EPx, "x" representing the state of the programmed economy (0 = disabled, 1 = enabled). Use the arrow keys to enable or disable economy mode. Use the Light key to jump to the next parameter, economy start time (ES).



Setting economy start time

The display will show ESxx, "xx" representing the hour at which the economy mode will become active. Use the Up or Down key to adjust the hour. Use the Light key to jump to the next parameter, economy duration (Ed).

When the Economy mode is ON, the display will toggle between the "Eco" message, the time, and the water temperature.



Setting economy duration

The display will show Edxx, "xx" representing the duration in hour of the economy mode. Use the Up or Down key to adjust the hour. Use the Light key to jump to the next parameter, temperature unit.

24 = continuous economy



Setting temperature unit

Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). The display will show F or C. Use the Up or Down key to change the setting. Use the Light key to save all the parameters.



Smart Winter Mode

Our Smart Winter Mode protects your system from the cold by turning pumps on several times a day to prevent water from freezing in pipes. The "SWM" indicator lights up when freezing is detected and flashes when the purge is active.

Note that the parameters for the economy mode settings are associated to specific low level configuration of the system that are not present in all software revisions.

Troubleshooting section

in.xe error codes

Description



Hr - An internal hardware error has been detected in the in.xe. Contact dealer or service supplier



HL - The system has shut the heater down because the temperature at the heater has reached 119°F (48°C). Do not enter the water! Remove the spa cover and allow the water to cool down, then shut power off and power your spa up again to reset the system.



AOH - Temperature inside the spa skirt is too high, causing the internal temperature in the in.xe to increase above normal limits. Open skirt and wait until error clears.



FLO - The system does not detect any water flow while the primary pump is running. Check and open water valves. Check for water level. Clean filter. If the problem persists, call your dealer or service supplier.



Pr - A problem is detected with the temperature probe. Call your dealer or service supplier.



OH - The water temperature in the spa has reached 108°F (42°C). Do not enter the water! Remove the spa cover and allow the water to cool down to a lower temperature. Call your dealer or service supplier if problem persists.



RESORT SERIES LIMITED WARRANTY



GPM Manufacturing LLC, makers of Celtic Hot Tubs, offers this Limited Warranty solely to the original purchaser and applies to residential use only within the United States and Canada.

Please read this entire Limited Warranty as exclusions and conditions do apply.

10 YEAR SHELL STRUCTURE

We warrant the Celtic Hot Tub shell not to leak for ten years from the original tubs purchase date.

10 YEAR SHELL SURFACE

We warrant the Celtic Hot Tub shell surface finish not to crack, wrinkle, blister, peel for 10 years from the original tubs purchase date.

1 YEAR EQUIPMENT

We warrant the Celtic Hot Tub Equipment (pumps, heater, control pack, LED lights and topside control) for one year.

1 YEAR PLUMBING

We warrant the plumbing of the tub will not leak due to defects in material and workmanship for one year.

1 YEAR JETS

Jet internals are warranted against malfunctions due to defects in material for one year. Jet internals are considered to be Easily Removed Components.

After initial delivery and startup, discoloring or fading of the plastics, corrosion of any stainless steel components are specifically excluded from these warranty terms.

Defective components that are easily removed from the spa and that can be readily replaced by the customer and do not require specialized tools or knowledge or create personal safety issues all of which are considered Easily Removed Components, will be repaired or replaced free of charge at your Celtic Hot Tub Dealer or by sending the effective components to GPM Manufacturing.



1 YEAR CABINET

We warrant the Celtic Hot Tub Cabinet against degradation and cracking for one year.

Bowing that can occur under some conditions is considered normal and excluded from this limited warranty. Also, normal wear and weathering that occur over time are not defects.

WARRANTY REGISTRATION AND WARRANTY CLAIM PROCEDURE

The original retail purchaser should register their hot tub purchase within 10 days from the date of original retail purchase to establish proof of purchase with GPM Manufacturing LLC.

Failure to register does not void this limited warranty but, upon any warranty claim, proof of purchase must first be provided to confirm original purchase date to the original retail purchaser. Hot tub registration can be submitted online at www.celtichottubs.com.

In the event of a warranty claim of a defect or malfunction covered under the provisions of this limited warranty, the original retail purchaser must first notify in writing the retail dealer who sold the hot tub within ten days of the initial malfunction or discovery of defect. If the retail dealer does not provide service, then the purchaser should contact Celtic Hot Tubs customer service department, via the website (www.celtichottubs.com), or provide written notice of the malfunction or defect at the address below. Upon notice of the warranty claim, the retail dealer or an approved independent service center representative will arrange inspection of the hot tub with the retail purchaser to determine if the claimed malfunction or defect is a covered malfunction or defect under this limited warranty. If it is determined that the malfunction is not covered by this limited warranty, the cost of the service call is the sole responsibility of the purchaser. If it is determined that the malfunction or defect is covered under this limited warranty, we, through the retail dealer, or approved independent service center will repair or replace the covered item. In the event of hot tub replacement, the replacement hot tub will carry the balance of the original hot tub warranty from the original retail purchase date.

We reserve the right for its dealers or approved service centers to collect from the retail purchaser reasonable travel expenses. In addition, access charges will be assessed if the hot tub is not reasonably accessible for inspection, repair or replacement. This limited warranty is extended to the original retail purchaser and is not transferable. This limited warranty becomes void upon the transfer of ownership of the hot tub or moving of the hot tub to a different location, if not moved by an authorized Celtic Hot Tub dealer.

EXCLUSIONS

This limited warranty is enforceable by the original retail purchaser from the date of the original retail purchase. Hot tub pillows, cover or any dealer installed accessories are specifically excluded from this limited warranty. All warranties are void if the hot tub is placed in commercial service. Normal wear and weathering of finishes and components are not defects and specifically excluded from this limited warranty. In the event it is necessary to move the hot tub from the residential premises to repair or replace any warrantable item, any and all cost of hot tub removal, transportation of the replacement hot tub, damages to landscaping, decking, fencing or other structural alteration, or any cost to obtaining access to the hot tub are the sole responsibility of the purchaser.



LIMITATIONS

This limited warranty is voidable if the hot tub has been subject to misuse, alteration or attempted alteration, repairs or attempted repairs by a non-approved service center or if a failure or malfunction is due to improper water chemistry, improper maintenance or lack of normal maintenance as prescribed in the Celtic Hot Tub Owners Manual, an act of God, weather conditions, animals, rodents, pests, or any damage from causes beyond the control of GPM Manufacturing LLC. Misuse or abuse shall mean operation of the hot tub other than in conformity with the Celtic Hot Tub Owners Manual. Such misuse and abuse shall include but not be limited to the following:

- Damage of the hot tub surface and components caused by leaving the hot tub uncovered or due to covering the hot tub with plastic film of any kind.
- Damage to the hot tub surface and components caused by use of a non-insulated cover or unapproved cover not provided by Celtic Hot Tubs when the hot tub is subject to weather conditions and sun.
- Damage to the hot tub surface and components caused by contact with unapproved cleaners or solvents.
- Damage caused by the operation of the hot tub at water temperatures outside the range of 34 degrees F to 104 degrees F.
- Freeze damage.
- Damage caused by unapproved sanitizers such as calcium hypochlorite, sodium hydroxide, tri-chlor type chlorines or any sanitizing chemical that may remain undissolved on the hot tub surface.
- Damages or malfunction due to dirty, clogged, calcified filters out use of an unapproved filter cartridge.
- Damages or malfunction caused by failure to provide even, proper support to the hot tub.
- Damages or malfunction caused during installation of the hot tub.

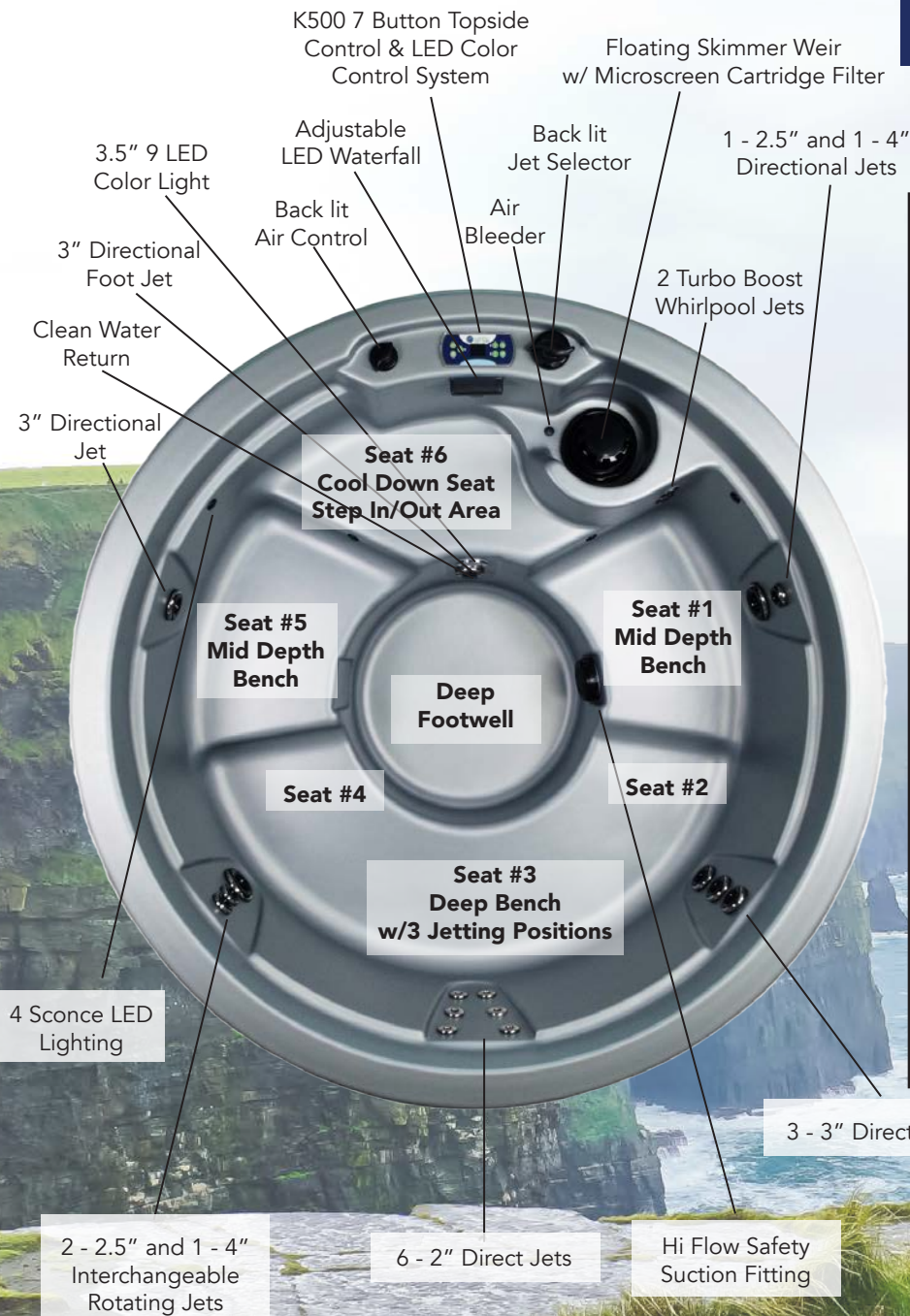
DISCLAIMERS

GPM Manufacturing LLC and its authorized agents shall not be liable for any injury, loss, cost or other damage, whether incidental, consequential, special or punitive, arising out of any defect covered by this limited warranty, including without limitation, loss of use of the hot tub and cost of removal of defective product, even if GPM Manufacturing LLC has been advised of the possibility of such damage. The liability of GPM Manufacturing LLC under this limited warranty, if any, shall not exceed the original amount paid for the defective product. Coverage under this limited warranty shall commence as of the original date of purchase and the duration of such coverage shall not extend for any reason whatsoever beyond the stated time period. These disclaimers shall be equally applicable to any service provided by GPM Manufacturing LLC or its authorized agents.

LEGAL RIGHTS

This Limited Warranty gives you specific legal rights. You may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you. Prompt return of a completed warranty registration form protects your warranty rights.

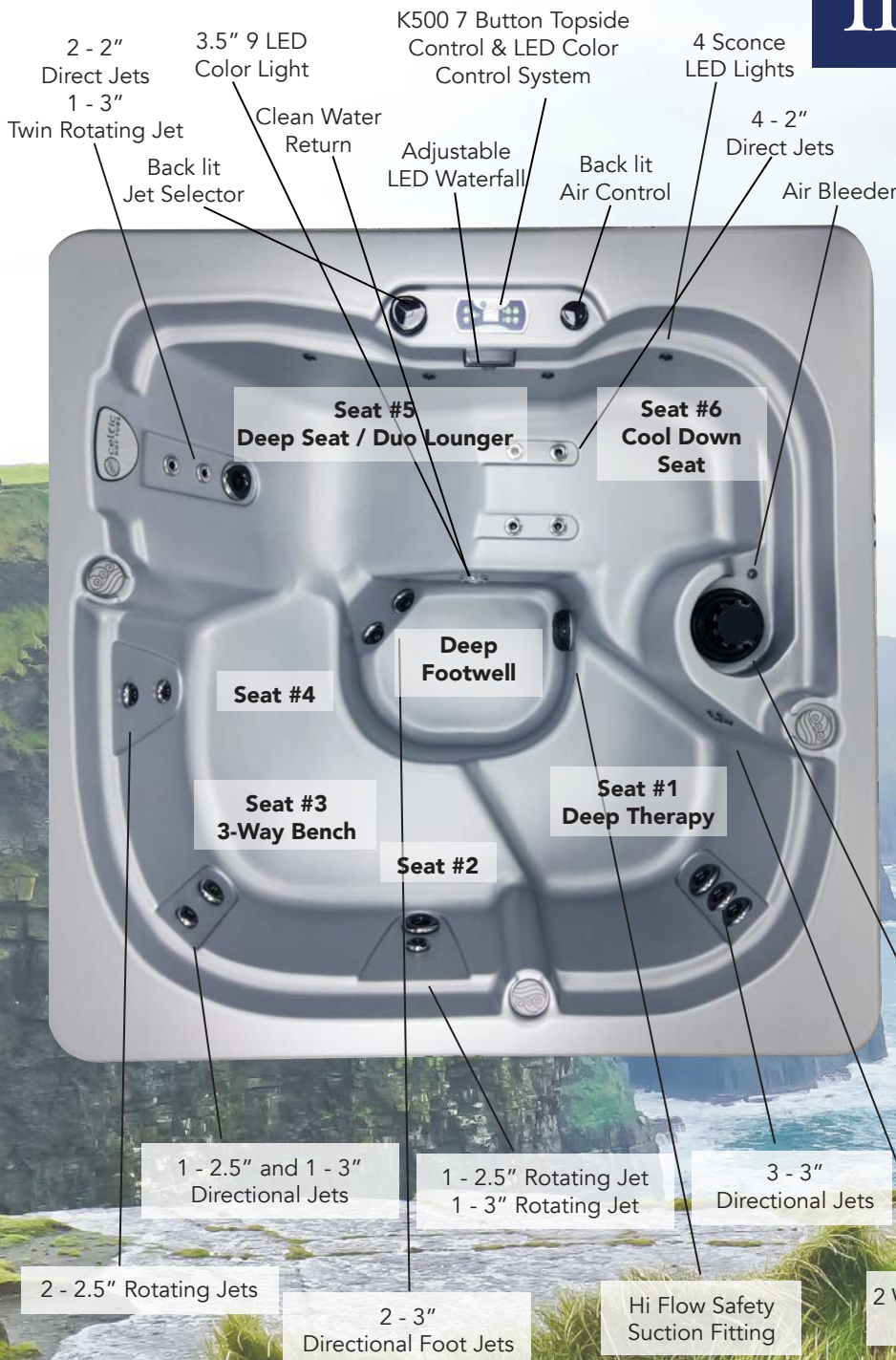
LUNA 118



| | |
|----------------------------|--|
| Weight | 360 lbs / 2,684 lbs filled |
| Measurement | 34" Depth / 78" Diameter |
| Water Capacity | 280 gal |
| Electrical Requirements | 110v / 15 amp Dedicated Circuit |
| Jet Pump | 2 HP / 2 Speed / 110v |
| Convertible Voltage Heater | 110v = 1KW Heat 220v = 4KW On Demand |
| Jets | 18 |
| Topside Control | k500 Programmable LED Color System |
| Filtration | Micro Screen Disposable Cartridge |
| Lighting | LED Celtic Glow |
| Interior Shell | High Density Polyethylene Weatherable & Strong |
| Exterior Cabinet | Celtic Shield Gray Std. Select Cabinet Optional |
| In.Touch Remote | Optional |
| Celtic Clean | Yes |
| Cover | Weathershield |
| Colors | Titanium & Seashell |

The Luna 118 introduces the exclusive Turbo Boost Whirlpool Therapy System. Turning the jet selector allows you to send all the pumps water through 2 - Turbo Boost Hi-Flow Whirlpool Jets. Because of the tubs round shape, the water will rotate quickly around the tub and may become your favorite therapy setting!

MYSTIC 120

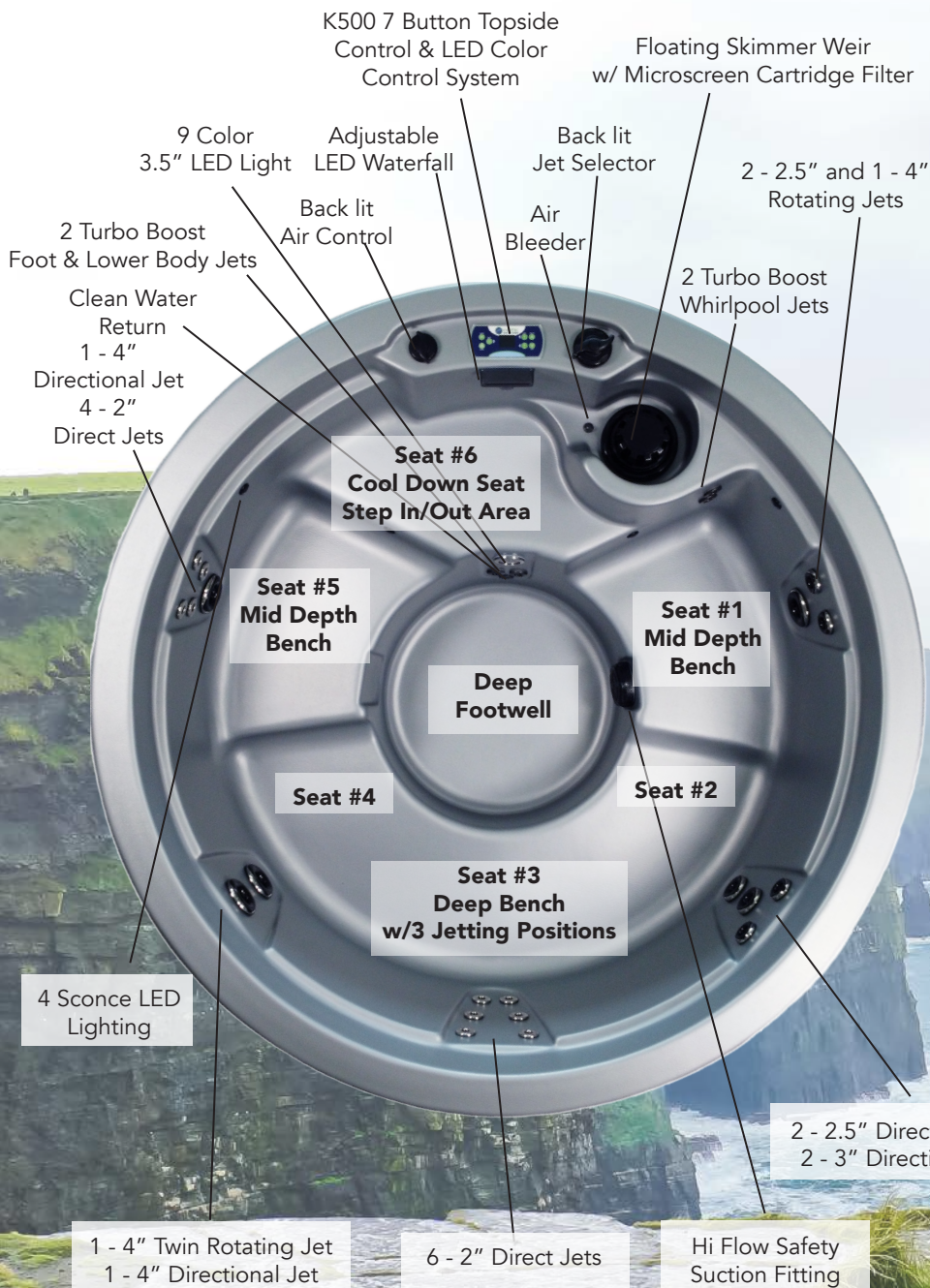


| | |
|----------------------------|---|
| Weight | 495 lbs / 3,317 lbs filled |
| Measurement | 34" Depth / 78" Square |
| Water Capacity | 340 gal |
| Electrical Requirements | 110v / 15 amp Dedicated Circuit |
| Jet Pump | 2 HP / 2 Speed / 110v |
| Convertible Voltage Heater | 110v = 1KW Heat 220v = 4KW On Demand |
| Jets | 20 |
| Topside Control | k500 Programmable LED Color System |
| Filtration | Micro Screen Disposable Cartridge |
| Lighting | LED Celtic Glow |
| Interior Shell | High Density Polyethylene Weatherable & Strong |
| Exterior Cabinet | Celtic Shield Select |
| In.Touch Remote | Optional |
| Celtic Clean | Yes |
| Cover | Weathershield |
| Color | Titanium & Seashell |

Floating Skimmer Weir
w/ Microscreen Cartridge Filter

Clean water should not be considered optional! That's why every standard Celtic Hot Tub comes with the "Celtic Clean" water management system. Included is a C.D. ozonator, an ozone mixing chamber and dedicated ozone return. Together, these components are oxidizing finite sized particles, killing bacteria, and significantly reducing the amount of chlorine required.

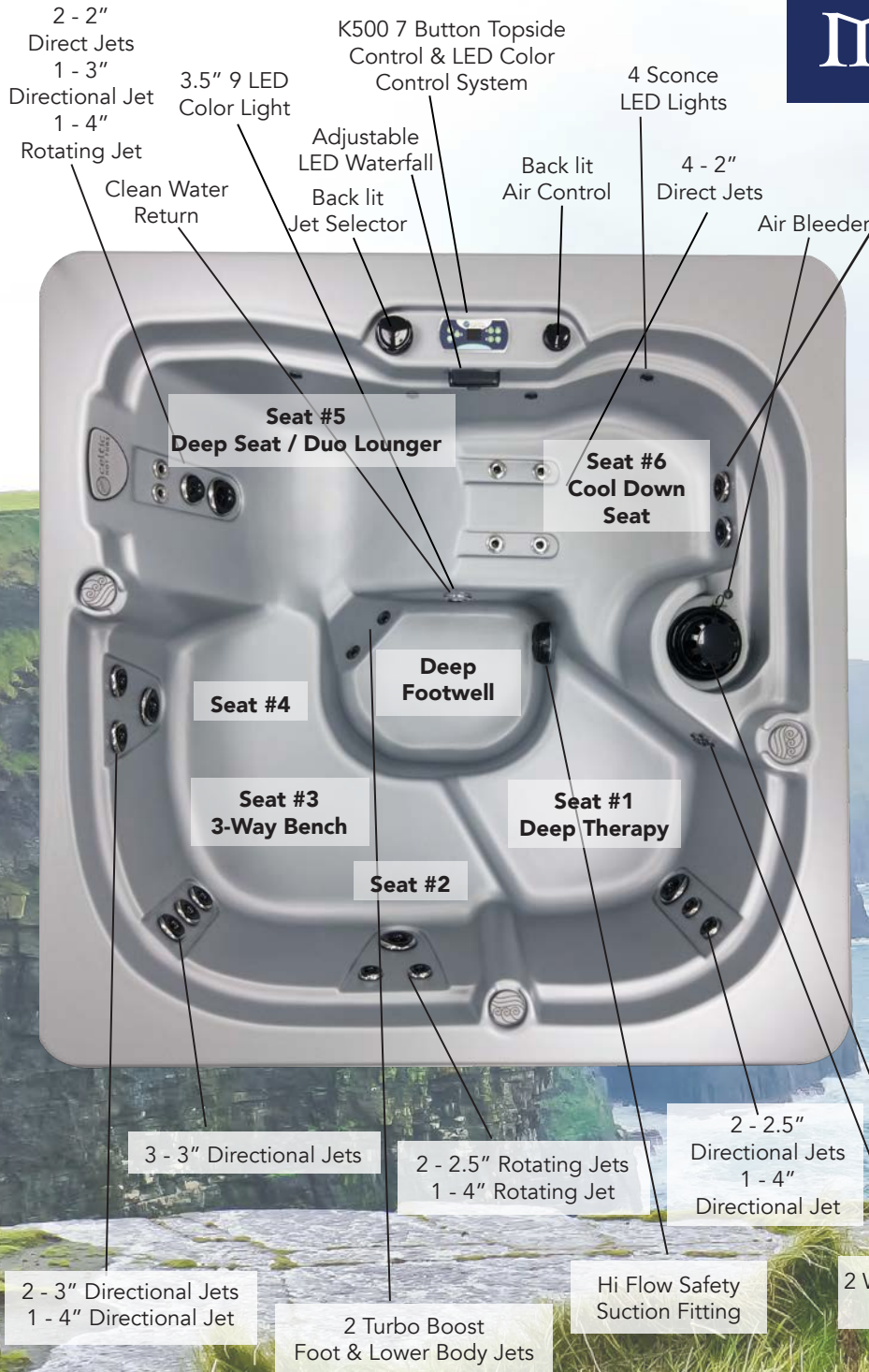
LUNA 124



| | |
|-------------------------|---|
| Weight | 360 lbs / 2,684 lbs filled |
| Measurement | 34" Depth / 78" Diameter |
| Water Capacity | 280 gal |
| Electrical Requirements | 220v / 50 amp Dedicated Circuit w/GFCI |
| Jet Pump | 4 HP / 2 Speed / 220v |
| Heater | 220v =4KW Heat Heats on high & low speed |
| Jets | 24 |
| Topside Control | k500 Programmable LED Color System |
| Filtration | Micro Screen Disposable Cartridge |
| Lighting | LED Celtic Glow |
| Interior Shell | High Density Polyethylene Weatherable & Strong |
| Exterior Cabinet | Celtic Shield Select |
| In.Touch Remote | Optional |
| Celtic Clean | Yes |
| Cover | Weathershield |
| Colors | Titanium & Seashell |

The Luna 124 Therapy System features 4-Turbo Boost Jets powered by a 4 HP 2 speed jet pump. As a result, this tub performs like a commercial grade Whirlpool Therapy System. Two of the Turbo Boost Jets are positioned for the swirling water in a whirlpool effect, while the other Turbo Boosts in the footwell add a powerful foot and lower body massage.

MYSTIC 126

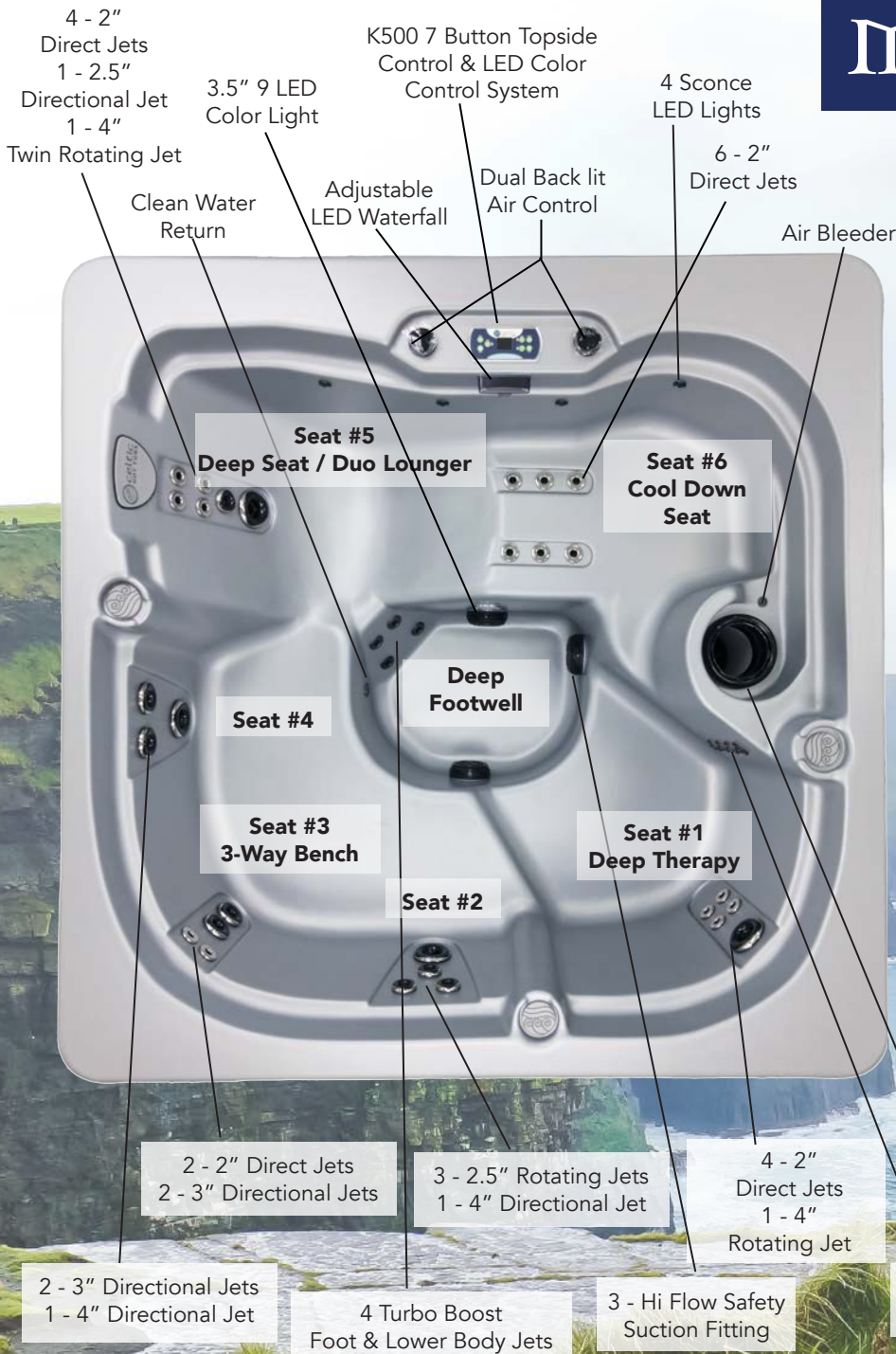


| | |
|-------------------------|--|
| Weight | 495 lbs / 3,317 lbs filled |
| Measurement | 34" Depth / 78" Square |
| Water Capacity | 340 gal |
| Electrical Requirements | 220 v / 50 amp Circuit Dedicated Circuit w/GFCI |
| Jet Pump | 4 HP / 2 Speed / 220v |
| Heater | 220v =4KW Heat Heats on high & low speed |
| Jets | 26 |
| Topside Control | k500 Programmable LED Color System |
| Filtration | Micro Screen Disposable Cartridge |
| Lighting | LED Celtic Glow |
| Interior Shell | High Density Polyethylene Weatherable & Strong |
| Exterior Cabinet | Celtic Shield Select |
| In.Touch Remote | Optional |
| Celtic Clean | Yes |
| Cover | Weathershield |
| Color | Titanium & Seashell |

The benefits of Celtic Glow, our LED colored lighting system, range from practical to emotional. Much of your time in the hot tub will be in the evening when the lighting is necessary to provide a safe night time environment. Even the topside controls are backlit for good visibility.

For years we've known about the emotional effects created from specific colors. How warm colors can spark emotions ranging from comfort and warmth or how cool colors can create a sense of calmness. Celtic Glow is included in all standard Celtic Hot Tubs.

MYSTIC 236



| | |
|-------------------------|--|
| Weight | 495 lbs / 3,317 lbs filled |
| Measurement | 34" Depth / 78" Square |
| Water Capacity | 340 gal |
| Electrical Requirements | 220 v / 50 amp Circuit Dedicated Circuit w/GFCI |
| Jet Pumps | 1 - 4 HP / 2 Speed / 220v 1 - 4 HP / 1 Speed / 220v |
| Heater | 220v =4KW Heat Heats on Demand |
| Jets | 36 |
| Topside Control | k500 Programmable LED Color System |
| Filtration | Micro Screen Disposable Cartridge |
| Lighting | LED Celtic Glow |
| Interior Shell | High Density Polyethylene Weatherable & Strong |
| Exterior Cabinet | Celtic Shield Select |
| In.Touch Remote | Optional |
| Celtic Clean | Yes |
| Cover | Weathershield |
| Colors | Titanium & Seashell |

The Mystic 236 is our flagship therapeutic hot tub. The Turbo Boost Therapy System is powered by 2 - 4 HP jet pumps. The primary 2 speed jet pump will provide low or high speed therapy through 23 back jets. The second pump is focused on powering 8 - Turbo Boost Jets as well as 5 jets in the deep therapy seat.

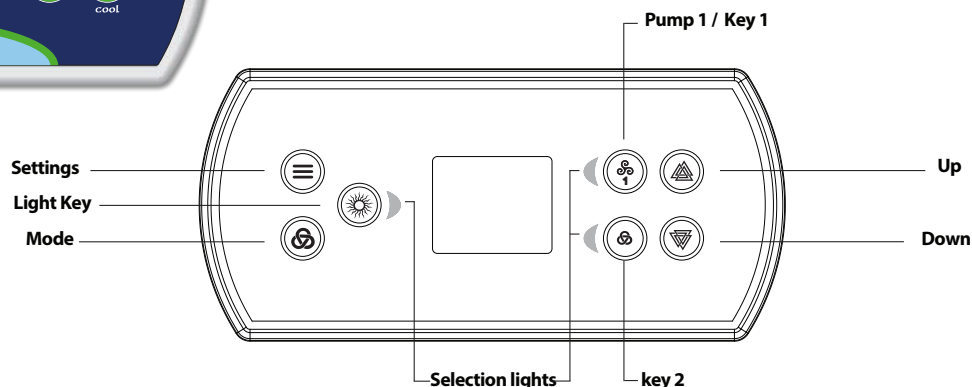
The whirlpool effect and the foot and lower body turbo boost jets performance are unequalled. When both pumps are running every jet in the tub will be operating at its high speed capacity.

1 Pump - Operation and Use Instructions



in.k500 intuitive color keypad

The in.k500 is built with all the great features you've come to love in the in.k800, but in a smaller package. It is discreet, compact, and unobtrusively beautiful. Save space without losing out on function.



**Functions for keys 1 and 2 will depend on your system's low level configuration.*

Main Functions



Settings key

One press gives you access to a menu to manage the settings of your spa. Refer to the settings section for details about the settings menu.

Main screen

The main screen gives you access to your accessories and water temperature. At the bottom of the screen you will see any error or maintenance messages that are present.

Power

Press any button to turn the keypad on. After 30 minutes without activity it will shut off.

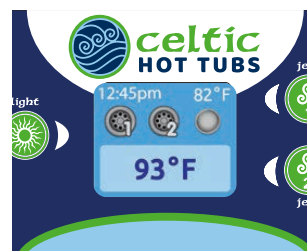
Start or stop accessories

To start or stop an accessory, press the associated button. Icons will become animated when their accessory is turned on, and inanimate when turned off. Icons on the screen will reflect the speed or state of the devices running on your spa.

When an accessory has more than two states, press the button until it reaches the desired state.

Mode key

Successive presses on the Mode key will give access to control different optional accessories of your spa such as Audio and others. Note that if an accessory is not present in your spa configuration, its menu will not appear. Refer to the following section to get details about the possible accessories and their detailed functionalities. The screen will revert back to the spa mode if no key is pressed for 60 seconds. If you don't have any accessories, Mode key can be used to change your display orientation

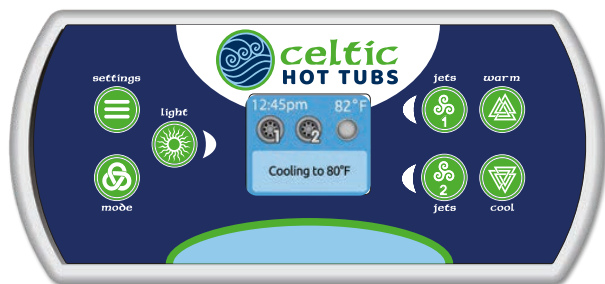


Water temperature

The temperature shown at the top of the screen gives the actual water temperature.

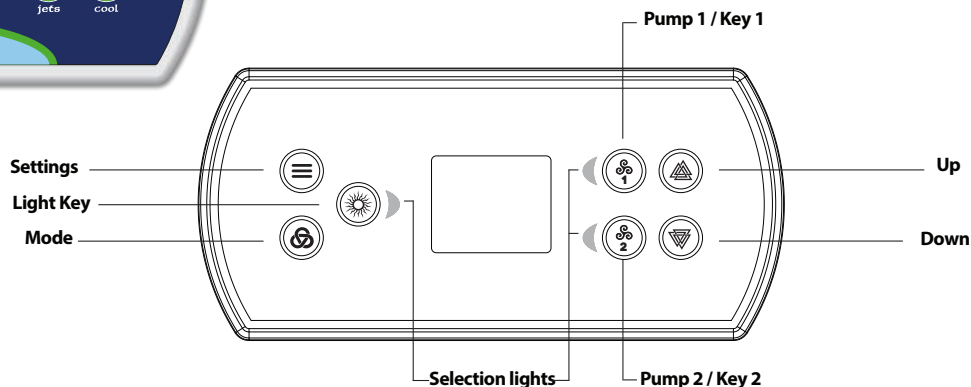
Use the Up and Down buttons to set the desired temperature. The set point will appear in blue at the bottom. After 3 seconds without any change to the set temperature value, the keypad will resume the normal display of messages.

2 Pump - Operation and Use Instructions



in.k500 intuitive color keypad

The in.k500 is built with all the great features you've come to love in the in.k800, but in a smaller package. It is discreet, compact, and unobtrusively beautiful. Save space without losing out on function.



**Functions for keys 1 and 2 will depend on your system's low level configuration.*

Main Functions



Settings key

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Main screen

The main screen gives you access to your accessories and water temperature. At the bottom of the screen you will see any error or maintenance messages that are present.

Power

Press any button to turn the keypad on. After 30 minutes without activity it will shut off.

Start or stop accessories

To start or stop an accessory, press the associated button. Icons will become animated when their accessory is turned on, and inanimate when turned off. Icons on the screen will reflect the speed or state of the devices running on your spa.

When an accessory has more than two states, press the button until it reaches the desired state.

** Only Pump #1 can have a dual speed.*

Mode key

Successive presses on the Mode key will give access to control different optional accessories of your spa such as Audio and others. Note that if an accessory is not present in your spa configuration, its menu will not appear. Refer to the following section to get details about the possible accessories and their detailed functionalities. The screen will revert back to the spa mode if no key is pressed for 60 seconds. If you don't have any accessories, Mode key can be used to change your display orientation



Water temperature

The temperature shown at the top of the screen gives the actual water temperature.

Use the Up and Down buttons to set the desired temperature. The set point will appear in blue at the bottom. After 3 seconds without any change to the set temperature value, the keypad will resume the normal display of messages.

in.mix / Celtic Glow LED Color Lighting



in.mix operation

This menu is only present if an in.mix system is detected.

Press on the Mode key to access your in.mix.

By default, the in.mix selects Zone 1 when you access the menu. After the first use, the menu will automatically return to the last zone selected.

Zone selection

The zone selection keys allow you to select a zone to modify its color.

- Press once to select the zone.
- Press a second time to deactivate the zone.

Changing colors

Once a zone is selected, use the arrow keys to change the colors by moving up and down in the color wheel.

Synchronizing zones

The synchronization/desynchronization key allows you to match the color of the selected zone to the other zones.

Settings



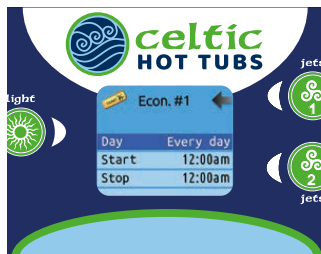
Settings

From the home page you can access the Settings, where you will find:

- Water Care
- Heat Pump (if installed)
- Audio (if installed)
- in.clear-200 linked version (version 13.00 and higher)
- Standby (version 6.00 only)
- Maintenance (version 7.00 and higher)
- Date & time
- Keypad
- Wi-Fi (Version 7.00 and higher. Only available on in.touch with software 11.00 and higher.)
- Config *
- Restore *
- About

Use the arrow keys to move up and down in the list. To select an option, press the lit button beside it (Light button). At any point you can press the Settings button to return to the home screen.

*Reserved for qualified electricians installers



Modifying Schedules

Use the arrow keys to scroll through the Water Care selections. To see and/or modify a Water Care category, use the lit button to the right (key 1) to open the selected Water Care menu. Use the arrow keys to choose a schedule to modify (choice of economy and filtration schedules).

Use the Light key to move between parameters. You have several possibilities for the schedule (Mon-Fri, weekend, every day, or single days). The schedules will be repeated every week.

The time and duration are set in 30 minute increments. Once you have set the schedule, use Key 1 to go back. Ensure that you have selected the desired Water Care option in the main Water Care menu.

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



Water Care

The Water Care section will help you set up your ideal filtration and heating settings. Choose a mode depending on your need.

Use the Light key to choose your setting. A checkmark will appear on the selected icon to confirm. In Economy mode, the set point will be reduced by 20°F*, which means that the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.

*Default pack value

Water Care Modes



Away:

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



Standard:

The spa will never be in economy mode and will be filtering according to the pack's low level configuration.



Energy Savings:

The spa will be in economy mode during the peak hours of the day and resume normal mode on the weekend*.



Super Energy:

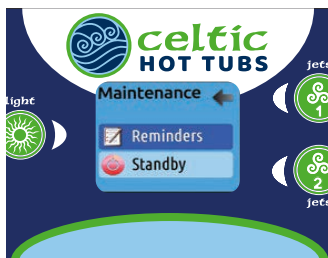
The spa will always be in economy mode during peak hours, every day of the week*.



Weekender:

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

Settings



Maintenance

From the Settings page you can access the Maintenance menu, which gives you access to the following options:

- Maintenance reminders
- Standby

Use the Up and Down keys to make a selection, and Light key to confirm.



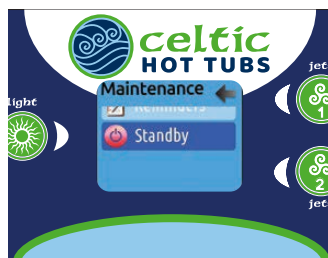
Maintenance Reminders

The in.k500 keypad will remind you of maintenance required on your spa, like rinsing or cleaning the filter. Each task has its own duration, based on normal use.

The Maintenance reminders menu allows you to verify the time left before maintenance is required, as well as to reset the time once a task is completed.

Use the Up and Down keys to move through the list.

To reset a task select it by pressing Light key, then confirm when prompted. Once you have confirmed the task will be reset.



Standby

The Standby mode allows you to service your spa. Pumps will stop for 30 minutes, and automatically restart after this time.

Once Standby mode has been activated a screen will appear to show that pumps are stopped. The normal spa page will return at the end of maintenance.

Press on the Light key to leave Standby mode and restart the spa.



Date and time

Here you can adjust the time format, change the year, date and time. Use the arrows to choose the setting that you want to adjust, and select it by pressing the Light key. Use the arrow buttons to change the parameters, and the Light key to move between parameters.

Key 1 will take you back to the main Settings menu.

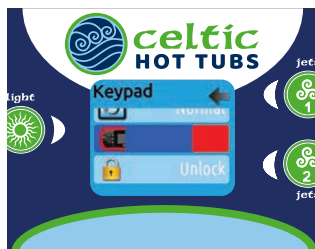


Keypad settings

In this section, you can change the temperature unit, language, display orientation, rim light color and keypad security. Note the spa pack must be configured accordingly to be able to change the rim light color.

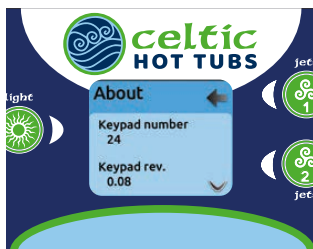
When you change the display orientation, the contextual options and arrow keys adjust to the chosen orientation. The Mode and Menu keys remain unchanged, as well as the accessory keys in the main spa menu.

Settings



With the in.k500 equipped with a selectable rim light color modul: If the "RGB backlight" option is enabled in the spa configuration an option will appear to allow selection of the keypad rim light color.

You can lock the keypad by selecting one of 3 security levels: Unlock, Partial or Full. The Partial level locks the set point adjustment and many options in the settings menu. The Full level locks all keypad functions. To unlock the keypad (either Partial or Full), press and hold the Light key for 5 seconds.



About

This section shows information about the in.k500 software number, and the revision numbers of the different components of your system.

Wi-Fi (in.touch only)



WiFi

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

To connect your in.touch module to a wireless network, use the Up/Down keys to go to the WiFi option in the Settings menu and Light key to select it.



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

Use the Up/Down keys to move through the list. Select your network by pressing on Light key.

If the WiFi network is password protected enter it when prompted.

- Use the arrow keys to choose your letters and change the type of character (uppercase, lowercase, number, symbol).
- Use Key 2 to move the cursor forward
- Use Key 1 to backspace
- Use Light key to confirm

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



Once the in.touch module is connected to a WiFi network a check mark in a green circle will appear in the WiFi menu, and the network logo will change to green in Settings menu.

Note: WiFi logo color in Settings menu corresponds to the in.touch connection state.

Yellow = not connected
Green = connected to a network
Yellow with wait icon = connection attempt to a network
Red with wait icon = in.touch no longer detected (in.touch must be reset before next connection attempt)



CELTIC HOT TUBS LIMITED WARRANTY



GPM Manufacturing LLC, makers of Celtic Hot Tubs, offers this Limited Warranty solely to the original purchaser and applies to residential use only within the United States and Canada.

Please read this entire Limited Warranty as exclusions and conditions do apply.

10 YEAR SHELL STRUCTURE

We warrant the Celtic Hot Tub shell not to leak for ten years from the original tubs purchase date.

10 YEAR SHELL SURFACE

We warrant the Celtic Hot Tub shell surface finish not to crack, wrinkle, blister, peel for 10 years from the original tubs purchase date.

3 YEAR EQUIPMENT

We warrant the Celtic Hot Tub Equipment (pumps, heater, control pack, and topside control) for three years.

2 YEAR EQUIPMENT

We warrant the Celtic Hot Tub Equipment (Ozonator and LED Lights) for two years.

3 YEAR PLUMBING

We warrant the plumbing of the tub will not leak due to defects in material and workmanship for three years.

3 YEARS JETS

Jet internals are warranted against malfunctions due to defects in material for a period of three years. Jet internals are considered to be Easily Removed Components.

After initial delivery and startup, discoloring or fading of the plastics, corrosion of any stainless steel components are specifically excluded from these warranty terms.

Defective components that are easily removed from the spa and that can be readily replaced by the customer and do not require specialized tools or knowledge or create personal safety issues all of which are considered Easily Removed Components, will be repaired or replaced free of charge at your Celtic Hot Tub Dealer or by sending the effective components to GPM Manufacturing.



3 YEARS CABINET

We warrant the Celtic Hot Tub Cabinet against degradation and cracking for three years.

Bowing that can occur under some conditions is considered normal and excluded from this limited warranty. Also, normal wear and weathering that occur over time are not defects.

WARRANTY REGISTRATION AND WARRANTY CLAIM PROCEDURE

The original retail purchaser should register their hot tub purchase within 10 days from the date of original retail purchase to establish proof of purchase with GPM Manufacturing LLC.

Failure to register does not void this limited warranty but, upon any warranty claim, proof of purchase must first be provided to confirm original purchase date to the original retail purchaser. Hot tub registration can be submitted online at www.celtichottubs.com.

In the event of a warranty claim of a defect or malfunction covered under the provisions of this limited warranty, the original retail purchaser must first notify in writing the retail dealer who sold the hot tub within ten days of the initial malfunction or discovery of defect. If the retail dealer does not provide service, then the purchaser should contact Celtic Hot Tubs customer service department, via the website (www.celtichottubs.com), or provide written notice of the malfunction or defect at the address below. Upon notice of the warranty claim, the retail dealer or an approved independent service center representative will arrange inspection of the hot tub with the retail purchaser to determine if the claimed malfunction or defect is a covered malfunction or defect under this limited warranty. If it is determined that the malfunction is not covered by this limited warranty, the cost of the service call is the sole responsibility of the purchaser. If it is determined that the malfunction or defect is covered under this limited warranty, we, through the retail dealer, or approved independent service center will repair or replace the covered item. In the event of hot tub replacement, the replacement hot tub will carry the balance of the original hot tub warranty from the original retail purchase date.

We reserve the right for its dealers or approved service centers to collect from the retail purchaser reasonable travel expenses. In addition, access charges will be assessed if the hot tub is not reasonably accessible for inspection, repair or replacement. This limited warranty is extended to the original retail purchaser and is not transferable. This limited warranty becomes void upon the transfer of ownership of the hot tub or moving of the hot tub to a different location, if not moved by an authorized Celtic Hot Tub dealer.

EXCLUSIONS

This limited warranty is enforceable by the original retail purchaser from the date of the original retail purchase. Hot tub pillows, cover or any dealer installed accessories are specifically excluded from this limited warranty. All warranties are void if the hot tub is placed in commercial service. Normal wear and weathering of finishes and components are not defects and specifically excluded from this limited warranty. In the event it is necessary to move the hot tub from the residential premises to repair or replace any warrantable item, any and all cost of hot tub removal, transportation of the replacement hot tub, damages to landscaping, decking, fencing or other structural alteration, or any cost to obtaining access to the hot tub are the sole responsibility of the purchaser.



LIMITATIONS

This limited warranty is voidable if the hot tub has been subject to misuse, alteration or attempted alteration, repairs or attempted repairs by a non-approved service center or if a failure or malfunction is due to improper water chemistry, improper maintenance or lack of normal maintenance as prescribed in the Celtic Hot Tub Owners Manual, an act of God, weather conditions, animals, rodents, pests, or any damage from causes beyond the control of GPM Manufacturing LLC. Misuse or abuse shall mean operation of the hot tub other than in conformity with the Celtic Hot Tub Owners Manual. Such misuse and abuse shall include but not be limited to the following:

- Damage of the hot tub surface and components caused by leaving the hot tub uncovered or due to covering the hot tub with plastic film of any kind.
- Damage to the hot tub surface and components caused by use of a non-insulated cover or unapproved cover not provided by Celtic Hot Tubs when the hot tub is subject to weather conditions and sun.
- Damage to the hot tub surface and components caused by contact with unapproved cleaners or solvents.
- Damage caused by the operation of the hot tub at water temperatures outside the range of 34 degrees F to 104 degrees F.
- Freeze damage.
- Damage caused by unapproved sanitizers such as calcium hypochlorite , sodium hydroxide, tri-chlor type chlorines or any sanitizing chemical that may remain undissolved on the hot tub surface.
- Damages or malfunction due to dirty, clogged, calcified filters out use of an unapproved filter cartridge.
- Damages or malfunction caused by failure to provide even, proper support to the hot tub.
- Damages or malfunction caused during installation of the hot tub.

DISCLAIMERS

GPM Manufacturing LLC and its authorized agents shall not be liable for any injury, loss, cost or other damage, whether incidental, consequential, special or punitive, arising out of any defect covered by this limited warranty, including without limitation, loss of use of the hot tub and cost of removal of defective product, even if GPM Manufacturing LLC has been advised of the possibility of such damage. The liability of GPM Manufacturing LLC under this limited warranty, if any, shall not exceed the original amount paid for the defective product. Coverage under this limited warranty shall commence as of the original date of purchase and the duration of such coverage shall not extend for any reason whatsoever beyond the stated time period. These disclaimers shall be equally applicable to any service provided by GPM Manufacturing LLC or its authorized agents.

LEGAL RIGHTS

This Limited Warranty gives you specific legal rights. You may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you. Prompt return of a completed warranty registration form protects your warranty rights.

Spa Cover Installation

Every Celtic Hot Tub is shipped with a high quality cover that meets or exceeds all safety requirements and carries the ASTM Certificate of Product Compliance. It is the responsibility of the homeowner to install the cover and lock mechanisms prior to filling the hot tub with water. The cover must be locked at all times when not in use to prevent unauthorized access.

As stated in the warranty, your hot tub cover must remain on the tub except for when in use. Never leave the tub uncovered when tub is empty. Exposure to direct sunlight can cause permanent damage to the tub shell and will not be covered under warranty.

Hot Tub Start Up Procedures

Once your hot tub is installed on its foundation and all electrical requirements have been met, you are ready to begin the startup procedure.

1. Before filling your hot tub, all shut-off slice valves must be OPEN. There are two or four twist lock slice valves located in the equipment area that are used to isolate water from the equipment area if your pumps or packs need to be serviced. To open the gate valves, turn the valve T-handle $\frac{1}{4}$ turn to unlock and then pull up approximately 3 inches until it stops and snaps into place. The hot tub is shipped with the gate valves open with snap locks to hold the valves in the open position.



Hot Tub Start Up Procedures

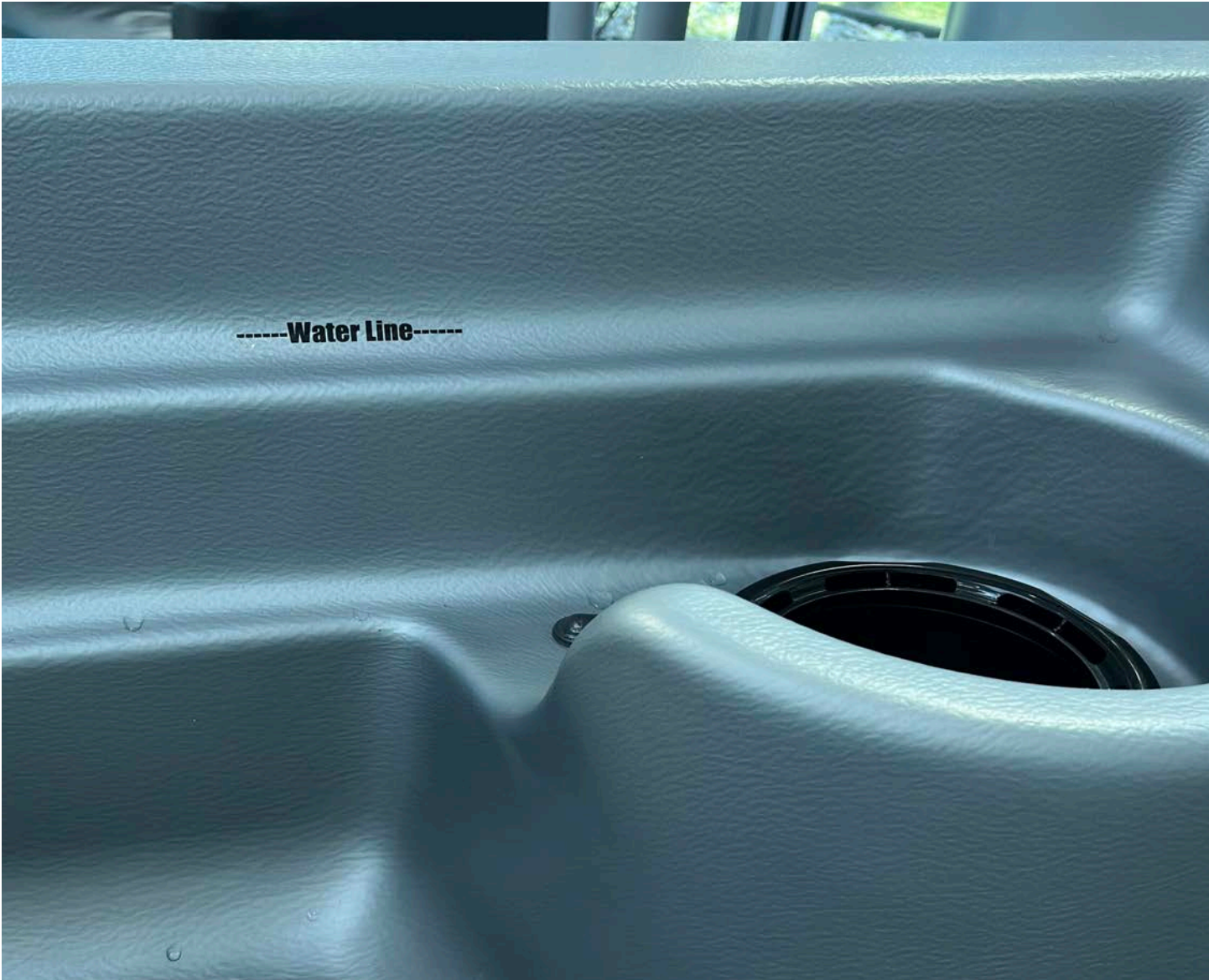
2. Before turning on the power to your hot tub, you will need to fill your it with a garden hose. It is ideal to fill your hot tub through the filter area. Remove the telescoping weir (see photo #1) by pulling it directly up. Remove and unwrap the filter cartridge (see photo #2) – turn counterclockwise and pull up. Place the garden hose in the filter bucket (see photo #3) and turn on the water. Fill until the water level reaches the waterline recommendations on page 35.



3. Once your hot tub is full, do a visual check of the heater unions to make sure there are no water drips. Also, make sure the equipment area is closed and turn on power to your hot tub. To avoid damage to your pump and heater, the power must never be turned on unless the spa is filled with water.
4. Your hot tub is now ready to use.

Hot Tub Start Up Procedures

Fill the water level up to the water line as shown in the image below.



Operation and Use Instructions

- There are two types of valves on the top rail of your hot tub that rotate to adjust your therapy level and performance. The larger valve is a jet selector that adjusts flow between two areas depending on the model. The smaller valve is in an air control.



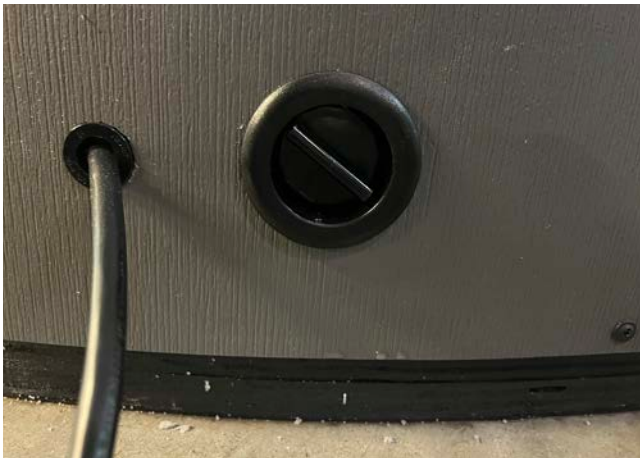
- Turn the air control knob to add air to the jet stream. Turn counterclockwise to open the air to the jets, or turn clockwise to turn off the air. The air control should remain closed when the spa is not in use (this will maximize heating efficiency).
- Turn the jet selector knob to move waterflow from the standard back jets to the turbo boost jets, depending on your hot tub model.
- The waterfall in your hot tub is controlled by rotating the integrated silver handle like a standard faucet handle. The waterfall should be turned off when the hot tub is not in use. If your waterfall becomes clogged with debris, it can be cleaned out by pulling the handle forward and off. Then use a 19 mm socket drive to carefully remove the internal components and flush out using a garden hose. Then replace the valve mechanism using care not to damage or pinch the O-ring seals.



Draining Your Hot Tub

Celtic Hot Tubs are equipped with a drain valve mounted directly to the side of the cabinet. Follow these steps to drain your hot tub safely:

1. Turn off the GFCI breaker in your hot tub sub panel or unplug your 110v GFCI plug.
2. Pull the handle straight back to gain access to the drain.
3. Once extended, remove the cap by unthreading it counterclockwise.
4. Attach a garden hose and route the hose away from the house foundation to an appropriate area. Use caution around plants if your sanitizer level is high.
5. Once the garden hose is connected, pull the drain hose out approximately another 1/2 in to open the valve and begin draining the hot tub.
6. Once the hot tub is empty, remove the garden hose, replace the cap on the drain valve, and push the drain hose back into the hot tub.
7. **WARNING: PLEASE BE AWARE THAT DRAINING YOUR HOT TUB IN WEATHER CONDITIONS BELOW 32 DEGREES FAHRENHEIT COULD LEAD TO DAMAGE TO THE PLUMBING AND/OR HEATER. FREEZE DAMAGE IS NOT COVERED BY THE WARRANTY.**



General Maintenance

Hot Water Chemistry

There are a few things that need to be checked and adjusted regularly to maintain the cleanliness of your hot tub water. Your dealer will be able to supply you with test strips and the appropriate chemicals. Keep in mind that these steps must be done in order.

When possible, it is ideal to rinse off lotions, hair products and sweat prior to entering the hot tub. The less contaminants that enter the hot tub, the easier it will be to treat the water.

Ozone:

Your Celtic Hot Tub (not including the Resort Series) is equipped with our Celtic Clean ozone generator that will reduce your dependence on chemicals like bromine and chlorine. Please replace every two years for best results.

Step 1: Total Alkalinity

- Total alkalinity acts as a 'buffer' for the pH. It is a measure of the water's ability to resist changes in the pH.
- If total alkalinity is too high, the pH level will be difficult to bring down. Either add more water to your hot tub or add sodium bisulfate (alkalinity down).
- If total alkalinity is too low, the pH will fluctuate erratically and cause scaling and corrosion issues in your hot tub. Add sodium carbonate (alkalinity up) to correct.
- The ideal range for total alkalinity is between 80 and 120.

Step 2: pH

- pH is the measure of how acidic or alkaline your water is. If the pH is out of the correct range, equipment may become damaged and the water will become uncomfortable.
- If the pH is too high (alkaline), you may experience ineffective sanitizers, scale buildup, cloudy water and a clogged filter. Add sodium bisulfate (pH down) to correct it.
- If the pH is too low (acidic), sanitizers will dissipate more quickly, equipment may corrode, and the water will be very drying to your skin. Add sodium carbonate (pH up) to correct.
- pH level between 7.2 and 7.6 is ideal.

Step 3: Calcium Hardness

- High calcium levels or 'hard water' can cause scale build up inside the plumbing system. Add calcium reducer to correct.
- Low calcium levels can cause the hot tub water to become highly corrosive. Add calcium hardness increaser to correct.
- The proper calcium hardness level is between 150 and 250 ppm.

General Maintenance

Step 4: Sanitizers

- DO NOT add Chlorine or Bromine until total alkalinity, pH, and calcium hardness are adjusted to the appropriate level.
- Chlorine and Bromine are measured in parts per million (ppm).
- When using an ozonator, 2-4 ppm is the ideal range. Increase by 1ppm if your hot tub does not have an ozonator.

NOTE: After adding water treatments, you must run the hot tub on high speed for approximately 15 minutes to circulate the chemicals and allow off gassing. Please leave the cover off during this time to avoid damage to the cover.



celtic HOT TUBS



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