

# HYDROPOOL serenity hot tubs owner's manual



HYDROPOOL  
SERENITY



Intertek

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BJAD

Please visit [www.hydropoolhottubs.com](http://www.hydropoolhottubs.com)  
to register your hot tub and activate your  
warranty with 30 days of the date of delivery.

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**NOTE:** Product specifications, warnings and labels are subject to change without notice. This user's manual should be used as a guide only. For further information, please contact your independent HydroPool dealer.

On behalf of everyone at the company, we thank you for your decision to purchase a Hydropool hot tub.

Recognized for quality worldwide, we are confident that your new hot tub will provide you, your family and friends, with years of enjoyment and fulfill all your hydrotherapy needs.

Hydropool hot tubs are not only healthful and relaxing, they can even add value to your home.

**Please take the time to carefully read and understand all the safety, installation and operating instructions in this manual before electrically connecting your hot tub and adding water.**

The following pages contain valuable information and pointers that will save you both time and money, as well as help you to simplify upkeep and maintenance.

Since we manufactured our first hot tub in 1985, the Hydropool team has been dedicated to producing a quality product catering to maximum hydrotherapy, comfort, energy efficiency and ease of operation.

We are confident that as you become more familiar with the various safety and maintenance features of your new hot tub you will be satisfied that you made the right decision in purchasing a Hydropool hot tub.

**Happy hot tubbing...**



**David Jackson**



## SAVE THESE INSTRUCTIONS

### IMPORTANT SAVE THESE INSTRUCTIONS

Your physiological response to hot water is subjective and depends on your age, health, and medical history. If you don't know your tolerance to hot water, or if you get a headache, or become dizzy or nauseous when using your hot tub, get out and cool off immediately.



# WARNING

1. CHILDREN SHOULD NOT USE SPAS OR HOT TUBS WITHOUT ADULT SUPERVISION.
2. DO NOT USE SPAS OR HOT TUBS UNLESS ALL SUCTION GUARDS ARE INSTALLED TO PREVENT BODY AND HAIR ENTRAPMENT.
3. PEOPLE USING MEDICATIONS AND/OR HAVING ANY ADVERSE MEDICAL HISTORY SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB.
4. PEOPLE WITH INFECTIOUS DISEASES SHOULD NOT USE A SPA OR HOT TUB.
5. TO AVOID INJURY, EXERCISE CARE WHEN ENTERING OR EXITING THE SPA OR HOT TUB.
6. DO NOT USE DRUGS OR ALCOHOL BEFORE OR DURING THE USE OF A SPA OR HOT TUB, TO AVOID UNCONSCIOUSNESS AND POSSIBLE DROWNING.
7. PREGNANT OR POSSIBLE PREGNANT WOMEN SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB.
8. WATER TEMPERATURE IN EXCESS OF 38°C (100°F) MAY BE INJURIOUS TO YOUR HEALTH.
9. BEFORE ENTERING THE SPA OR HOT TUB, MEASURE THE WATER TEMPERATURE WITH AN ACCURATE THERMOMETER.
10. DO NOT USE A SPA OR A HOT TUB IMMEDIATELY FOLLOWING STRENUOUS EXERCISE.
11. PROLONGED IMMERSION IN A SPA OR HOT TUB MAY BE INJURIOUS TO YOUR HEALTH.
12. DO NOT PERMIT OR USE ELECTRIC APPLIANCES (SUCH AS LIGHT, TELEPHONE, RADIO OR TELEVISION) WITHIN 1.5M (5FT) OF THIS SPA OR HOT TUB.
13. CHILDREN SHOULD NOT ENTER A HOT TUB WHERE THE WATER TEMPERATURE EXCEEDS BODY TEMPERATURE (37° C / 98.6°F).
14. DO NOT ALLOW CHILDREN TO SUBMERGE THEIR HEAD UNDER WATER.
15. NEVER OPERATE THE HOT TUB PUMP AT HIGH SPEED WITHOUT HAVING ALL SUCTION AND RETURN LINES OPEN.
16. ALWAYS KEEP THE HARDCOVER INSTALLED AND LOCKED WHEN THE HOT TUB IS NOT IN USE.
17. TEST THE GFCI (GROUND FAULT CIRCUIT INTERRUPTER) MONTHLY.
18. POST EMERGENCY PHONE NUMBERS FOR POLICE, FIRE DEPARTMENT, AND AMBULANCE AT THE NEAREST PHONE.
19. TO REDUCE THE RISK OF INJURY
  - THE WATER IN A SPA SHOULD NEVER EXCEED 40°C (104°F). WATER TEMPERATURES BETWEEN 38°C (100°F) AND 40°C (104°F) ARE CONSIDERED SAFE FOR A HEALTHY ADULT. LOWER WATER TEMPERATURES ARE RECOMMENDED FOR YOUNG CHILDREN AND WHEN SPA USE EXCEEDS 10 MINUTES.
  - SINCE EXCESSIVE WATER TEMPERATURES HAVE A HIGH POTENTIAL FOR CAUSING FETAL DAMAGE DURING THE EARLY MONTHS OF PREGNANCY, PREGNANT OR POSSIBLY PREGNANT WOMEN SHOULD LIMIT SPA WATER TEMPERATURES TO 38°C (100°F).
  - BEFORE ENTERING A SPA, THE USER SHALL MEASURE THE WATER TEMPERATURE SINCE THE TOLERANCE FOR WATER TEMPERATURE-REGULATING DEVICES VARIES.
  - THE USE OF ALCOHOL, DRUGS, OR MEDICATION BEFORE OR DURING SPA USE MAY LEAD TO UNCONSCIOUSNESS, WITH THE POSSIBILITY OF DROWNING.
  - OBESE PERSONS AND PERSONS WITH A HISTORY OF HEART DISEASE, LOW OR HIGH BLOOD PRESSURE, CIRCULATORY SYSTEM PROBLEMS OR DIABETES SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA.
  - PERSONS USING MEDICATION SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA SINCE SOME MEDICATION MAY INDUCE DROWSINESS WHILE OTHER MEDICATION MAY EFFECT HEART RATE, BLOOD PRESSURE AND CIRCULATION.

## SAVE THESE INSTRUCTIONS

### IMPORTANT SAVE THESE INSTRUCTIONS

Your physiological response to hot water is subjective and depends on your age, health, and medical history. If you don't know your tolerance to hot water, or if you get a headache, or become dizzy or nauseous when using your hot tub, get out and cool off immediately.



# CAUTION

1. MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.



# DANGER

1. RISK OF ACCIDENTAL DROWNING. EXTREME CAUTION MUST BE EXERCISED TO PREVENT UNAUTHORIZED ACCESS BY CHILDREN. TO AVOID ACCIDENTS, ENSURE THAT CHILDREN CAN'T USE THE SPA UNLESS THEY ARE SUPERVISED AT ALL TIMES.
2. RISK OF INJURY. THE SUCTION FITTINGS IN THIS SPA ARE SIZED TO MATCH THE SPECIFIC WATER FLOW CREATED BY THE PUMP. SHOULD THE NEED ARISE TO REPLACE THE SUCTION FITTINGS OR THE PUMP, BE SURE THAT THE FLOW RATES ARE COMPATIBLE. NEVER OPERATE THE SPA IF THE SUCTION FITTINGS ARE BROKEN OR MISSING. NEVER REPLACE A SUCTION FITTING WITH ONE RATED LESS THAN THE FLOW RATE MARKED ON THE ORIGINAL SUCTION FITTING.
3. RISK OF ELECTRIC SHOCK. INSTALL AT LEAST 1.5M (5FT) FROM ALL METAL SURFACES. AS AN ALTERNATIVE, A SPA MAY BE INSTALLED WITHIN 1.5M (5FT) OF METAL SURFACES IF EACH METAL SURFACE IS PERMANENTLY CONNECTED BY A MINIMUM 8 AWG (8.4 mm<sup>2</sup>) SOLID COPPER CONDUCTOR TO THE WIRE CONNECTOR ON THE TERMINAL BOX THAT IS PROVIDED FOR THIS PURPOSE.
4. RISK OF ELECTRIC SHOCK. DO NOT PERMIT ANY APPLIANCE, SUCH AS A LIGHT, TELEPHONE, RADIO, OR TELEVISION, WITHIN 1.5M (5FT) OF THE SPA.

### HYPERTHERMIA

Since your hot tub can be set to reach temperatures of 40°C (104° F), users should be aware that extended submersion in water that exceeds normal body temperature can lead to hyperthermia.

The causes, symptoms and effects of hyperthermia may be described as follows:

Hyperthermia occurs when the internal temperature of the body reaches several degrees above the normal body temperature of 37°C (98.6°F). The symptoms of hyperthermia include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include:

- Unawareness of impending hazard
- Failure to perceive heat
- Failure to recognize the need to exit the hot tub
- Physical inability to exit the hot tub
- Fetal damage in pregnant woman
- Unconsciousness resulting in the danger of drowning

If you sense any of the symptoms of hyperthermia, safely exit the hot tub immediately.

## WARNING



THE USE OF ALCOHOL, DRUGS OR MEDICATION CAN SIGNIFICANTLY INCREASE THE RISK OF FATAL HYPERTHERMIA.

## CHOOSING THE RIGHT LOCATION

Your HydroPool hot tub can be installed indoors or out, on the ground, in the ground or half-and-half. The following information will assist you in choosing the right location for your individual needs. When making your decision, always remember that hot tubs can be enjoyed year-round, indoors or out, regardless of the climate. Many HydroPool owners report that their favourite time to use a hot tub is in the cooler fall and winter months, while others praise the enjoyment of using their hot tub in the warmer spring and summer months.

### INDOOR LOCATIONS

If members of your family are not cold weather enthusiasts, or if your backyard or patio area is not suitable for a hot tub installation, then an indoor location for your hot tub may be your best or only choice. You may wish to create an exercise/spa area in your home, or install your hot tub in a glass solarium or four-season room adjoining your home. Indoor installations not only add a unique look and appeal to your home, they provide the privacy and controlled climate to ensure that use and enjoyment of your hot tub is maximized. If you should choose an indoor location, you will find further information as outlined in the section **“SPECIAL CONSIDERATIONS FOR INDOOR INSTALLATIONS”**

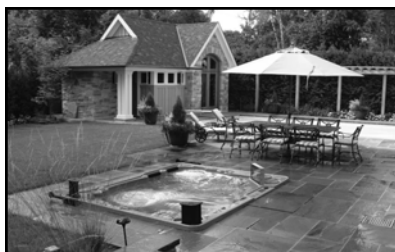


### OUTDOOR LOCATIONS

For a variety of reasons, outdoor locations are a far more popular choice. Some of the reasons include:

- Limited indoor space
- Delivery complications due to door openings, stairwells, etc.
- Limited budget (indoor installations usually also involve interior home renovations)
- Desire for an outdoor entertainment center
- Hot tub is being installed adjacent to an existing or planned swimming pool
- Concerns over splashing water inside the home

For those who choose an outdoor location, hot tub operating temperatures can be adjusted to match the season. In colder months, many owners will operate their hot tub in the range of 38-40°C (100 -104°F). During warmer months, an operating temperature of 36-37°C (97-99°F) will provide a refreshing retreat. If you should choose an outdoor location, you will find further information as outlined in the section **“SPECIAL CONSIDERATIONS FOR OUTDOOR INSTALLATIONS”**



## GENERAL INSTALLATION CONSIDERATIONS

- 1 Your HYDROPOOL hot tub is a self-contained pre-plumbed unit, so that no on-site plumbing connections to the residential water supply or drain are required.
- 2 Ensure that your HYDROPOOL hot tub is properly supported by either a level concrete pad, or a properly constructed deck capable of supporting 1220 kg/m<sup>2</sup> (250 lbs./ft.<sup>2</sup>). If there is a possibility that the pad could shift by freezing/thawing ground movement (such as in clay regions, and/or areas with high water tables) concrete footings extending below the frost line are recommended.
- 3 Decking should be chosen and constructed in a manner that minimizes the chance of slipping or falling.
- 4 If you do not have a factory installed insulated cabinet, it is assumed that you are building your own custom cabinet, tiling or decking.

### Please consider the following:

- a Your HYDROPOOL hot tub is self-supporting on its base. The cabinet should be decorative only, not for support. Never suspend the hot tub from the deck or cabinet.
- b Where the hot tub is not equipped with a factory installed cabinet, it is the installer's responsibility to ensure all electrical equipment is **completely weather protected** and meets all of the regulatory requirements.

- c Always provide adequate access for servicing the support equipment.
  - d Decking must be constructed to allow repair access around the entire hot tub.
  - e In remote equipment or no-cabinet installations, you may add extra insulation, but the equipment area must have adequate cross-flow ventilation.
- 6 Installation of a safety grab rail or reachable support for use when entering or exiting the hot tub is recommended.
  - 7 A nearby garden hose connection is recommended for filling and "topping up" the hot tub.

## WARNING



**The hot tub equipment and all electrical plugs, outlets and lights within 1.5m (5ft) of the hot tub must be G.F.C.I protected. Consult your electrician or local electrical authority for further details.**

**Access to the hot tub must always be secured:**

**Outdoors - in accordance with local property by-laws and/or via an approved fence with a self-closing gate and a safety hardcover;**

**Indoors - by a lockable door and a safety hardcover.**

## SPECIAL CONSIDERATIONS

### INDOOR INSTALLATIONS

- It is beneficial to have the hot tub room located near wash room and shower facilities
- The hot tub room should have a floor drain to handle splash water, a window, outside exhaust fan or humidistat controlled exhaust fan for ventilation and a humidifier.
- Consider plumbing a water tap and drain location nearby to facilitate draining and top-up
- Always provide adequate ventilation for the support equipment
- Consult your local Hydropool retailer for further information

### OUTDOOR INSTALLATIONS

- Contact your local building code department to determine if a building permit is necessary and for information on applicable bylaws (distance from property lines, buildings, fencing requirements, etc.)
- If you are doing any excavating, contact your local gas, electric, and cable-company to ensure that there are no underground lines
- Locate the hot tub, where practical, within close distance of a door to the house to maximize potential winter use.
- Ensure that all hot tub support equipment is easily accessible and protected from the elements
- The hot tub support equipment is designed for indoor (out of the direct elements) use. When your HYDROPOOL hot tub is equipped with a factory-installed cabinet, and installed as per the guidelines of this manual, the equipment will be adequately protected. If the hot tub is shipped without a cabinet, your custom cabinet or other structure must be designed to supply protection for the hot tub support equipment from rain, snow, splash water, etc., but still designed in a manner to ensure adequate ventilation.

## SITE PREPARATION

### ABOVE-GROUND INSTALLATIONS

Where the hot tub is a “stand-alone” above-ground installation to be installed in regions where freeze/thaw conditions may occur, a level patio stone or pre-formed paver type base may be sufficient if there is no abutting deck(s) that could be damaged during potential seasonal movement of the ground. The potential drawback to this type of base is that splash water could eventually de-stabilize the ground under the base, with the resultant shift of the support base causing damage to the hot tub structure.

For best results, we recommend the installation of a level concrete pad:

- **Dig out and level the ground 20-30 cm (8-12 in.) below your desired base level**
- **Install 10-15 cm (4-6 in.) of crushed stone**
- **Next, install 10-15 cm (4-6 in.) of poured concrete**
- **Level the concrete and apply a broom-type finish**
- **We recommend that the pad be made 15 cm (6 in.) larger than the hot tub on three sides, and 1 m (3 ft.) larger on the side where the access steps and/or planters will be installed.**
- **Hot tub/swimspa must be installed on a level pad**

In regions where freeze/thaw occurs, or where there will be custom decking abutting the hot tub we recommend the installation of sono-tubes beneath the pad to prevent shifting.

### IN-GROUND & PARTIAL IN-GROUND INSTALLATIONS

For units being installed fully or partially in the ground, the type of support will again vary based on whether or not the tub is being installed in an area with freeze/thaw conditions. Hydro-pool does **not** recommend back-filling full in-ground or partial in-ground installations.

• Non-freezing climates – it is sufficient to ensure that the base of the hole or cavity created for the tub has a dry, stable, compacted level base and proper drainage.

• Climates where freeze/thaw occurs – it is necessary that a poured level reinforced concrete base, complete with concrete footings, be installed as outlined in the section **ABOVE-GROUND INSTALLATIONS**.

Areas with a high ground water table – a level concrete base, as well as a concrete or wood retaining wall to hold back the earth, is recommended. This forms a box or ‘bunker’, in which the hot tub is placed.

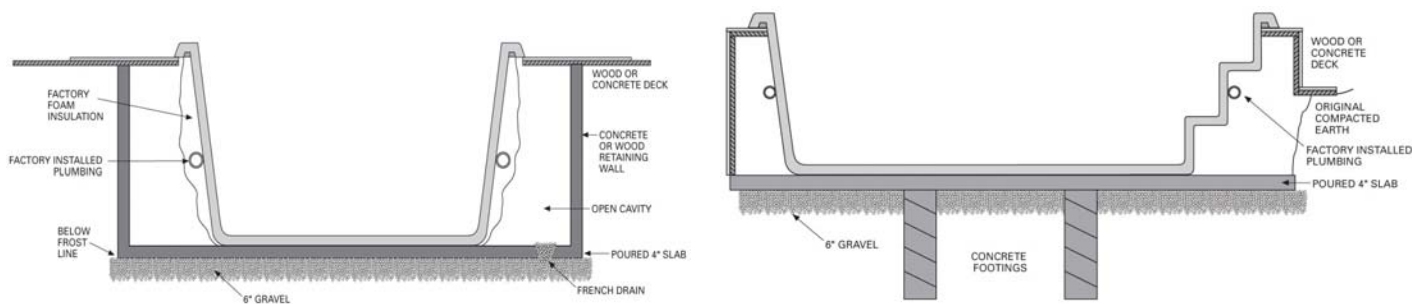
• **ALWAYS** ensure that there is good drainage, via a properly designed French drain (gravel) system and/or a sump pump, to prevent ground water flooding damage to the support equipment or hot tub structure.

• Install protective waterproof conduit to house any cables that will be buried.

• Access for future service must be considered at the time of design and installation. You must be able to access all sides and areas of your hot tub. Difficult access will result in supplemental service labor charges not covered by the factory warranty.

Consider easily removable deck materials.

• Make sure the hot tub or swim spa is tested for 48 hours before you prepare the installation of the surrounding/finish deck around your hot tub. Even though all units are tested in our plant, some transport/site handling damage can occur and we suggest you make sure the tub is perfectly waterproof before finalizing your installation.





## EQUIPMENT ACCESSIBILITY AND PROTECTION

The equipment must be located in an area where it will remain serviceable, dry and will not be exposed to rain, snow or ground water.

## UNLOADING / HANDLING YOUR HOT TUB

All HydroPool hot tubs are shipped with a protective combination layer of foam wrap, cardboard and plastic film. Each hot tub is factory strapped onto a wood skid. If your hot tub is to be delivered by your local dealer, it will generally arrive on a flat bed truck or low profile trailer. Most dealers are equipped with the necessary equipment to maneuver the hot tub from the truck to the dolly or cart that will be used to move your hot tub to the installation location.

Should your hot tub arrive in a common closed box trailer, it may be necessary to arrange with a local towing company for a tilt and load tow truck, with a pulley winch system, to pull the skid from the larger trailer to the lower profile tow truck flat bed. The hot tub can be gently slid off the low profile trailer and positioned on its side on a cart or dolly on its back side only.

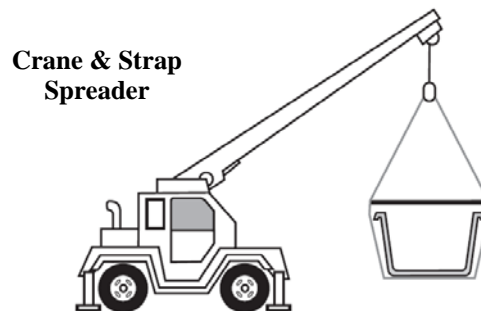
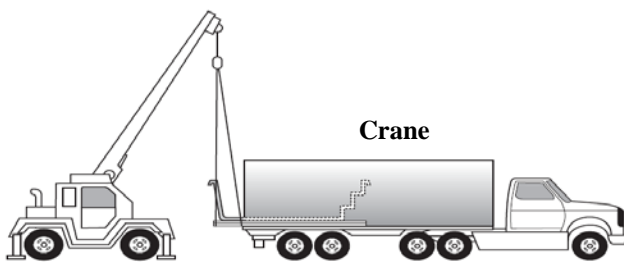
Most HydroPool models require a clearance width of at least 100 cm. (39 in.) to allow movement of the unit on its side through alley-ways, fence openings, etc. Where this is not possible, the use of a crane to lift the hot tub from the truck or trailer over the house to the patio or yard is often a simple and economical option.



### WARNING

- Do not move or place the hot tub on the side where the equipment is located as damage could occur
- Never roll or flip the hot tub end over end as the cabinet could be damaged
- Never lift or handle the hot tub by the plumbing
- Make sure that there is sufficient assistance to gently slide the hot tub off the dolly or cart to the support base without any damage

**Important Note:** Damage caused during transportation or by improper handling is not covered by the factory warranty.



## IMPORTANT ELECTRICAL SAFETY INSTRUCTIONS

**SAFETY COMES FIRST. WHEN INSTALLING & USING THIS ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS MUST ALWAYS BE FOLLOWED!**

### 1 READ AND FOLLOW ALL INSTRUCTIONS

- 2 Electrical installation must be completed by a qualified electrician in accordance with all National, Regional and Local Codes and Regulations in effect at the time of installation.
- 3 Connect only to a dedicated circuit protected by a class 'A' two-pole ground fault circuit interrupter (GFCI)
- 4 **Use copper conductors only!**
- 5 The hot tub equipment and all electrical plugs, outlets and lights within 1.5m (5ft) of the unit must be G.F.C.I protected. Consult your electrician or local electrical authority for further details.
- 6 A green colored terminal or a terminal marked "G", "GR", "Ground", or "Grounding" is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying the equipment.
- 7 At least two lugs marked "**BONDING LUGS**" are provided on the external surface or on the inside of the supply terminal box or compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub to these terminals with an insulated or bare copper conductor not smaller than No.6 AWG (Canada/Europe) / No.8 AWG (USA).
- 8 All field installed metal components such as rails, ladders, drains or other similar hardware within 3 m (10 ft) of the hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No.6 AWG.

### IMPORTANT NOTE:

- This guide is for standard installations where the wire run is 15 m (50 ft.) or less. For longer wire runs, consult a qualified electrician.

<b>G.F.C.I./R.C.D. APPLICATION GUIDE FOR HYDROPOOL SERENITY SERIES</b>	
<b>NORTH AMERICA</b>	
<b>Special Edition</b>	15A
<b>Gold Series</b>	40A
<b>Platinum Series</b>	50A
<hr/>	
<b>EUROPE</b>	
<b>All models</b>	20A

### WIRE SIZE

#### NORTH AMERICA

- The minimum wire size for systems that require a 40A GFCI is # 8/3 c/w ground (also referred to as # 8 gauge / 4 conductor).
- The minimum wire size for systems that require a 50A GFCI is # 8/3 c/w ground (also referred to as # 8 gauge / 4 conductor).

#### EUROPE

Standards for amperage breakers may vary from country to country in the CE controlled area. Please consult your local installer for advice on breaker level and wire specifications. Some examples are below:

- Breaker of 13A—wire must be 1.5 mm<sup>2</sup>
- Breaker of 16A—wire must be 2.5 mm<sup>2</sup>
- Breaker of 20A—wire must be 4.0 mm<sup>2</sup>
- Breaker of 32A—wire must be 6.0 mm<sup>2</sup>

**NOTE: Please consult your applicable electrical codes related to the size of conductors as they may vary from what is stated above. Take into consideration the length of cable as well and increase as required.**

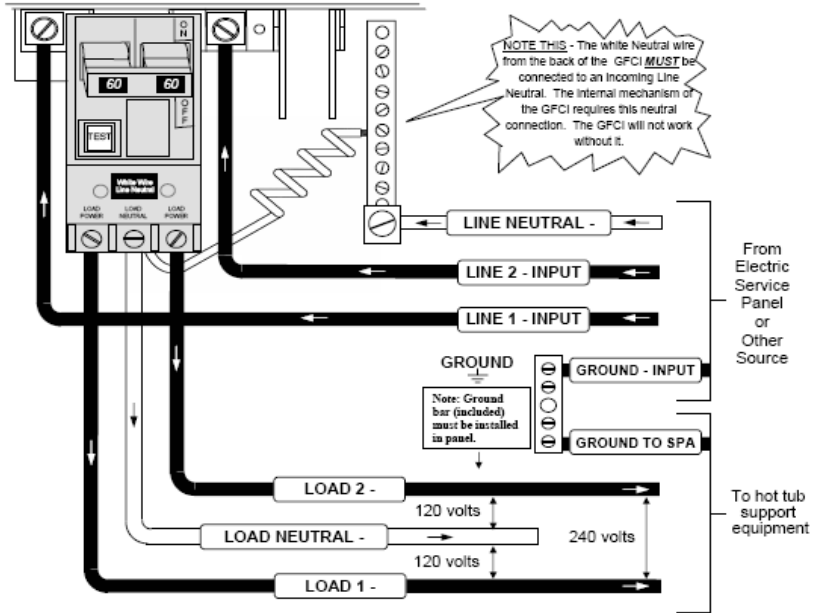
## NORTH AMERICA – GFCI INSTALLATION



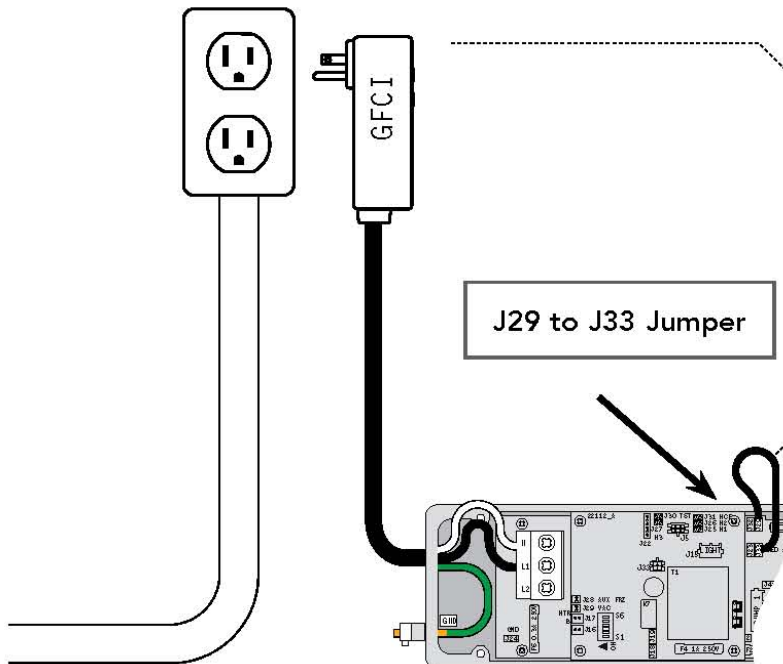
### NOTICE

Installation of the GFCI - Circuit Breaker, including ampere sizing and selection of conductor size and type, must be performed by a qualified electrician in accordance with the National Electrical Code, or the Canadian Electrical Code, and all Federal, State/Provincial and local codes and regulations in effect at the time of installation. HydroPool highly recommends the use of a new Siemens GFCI breaker for all of its products. Other GFCI's and older Siemens GFCI's may have tripping issues.

#### SIEMENS - 240 VOLT TYPICAL



#### LEVITON - 120 VOLT TYPICAL

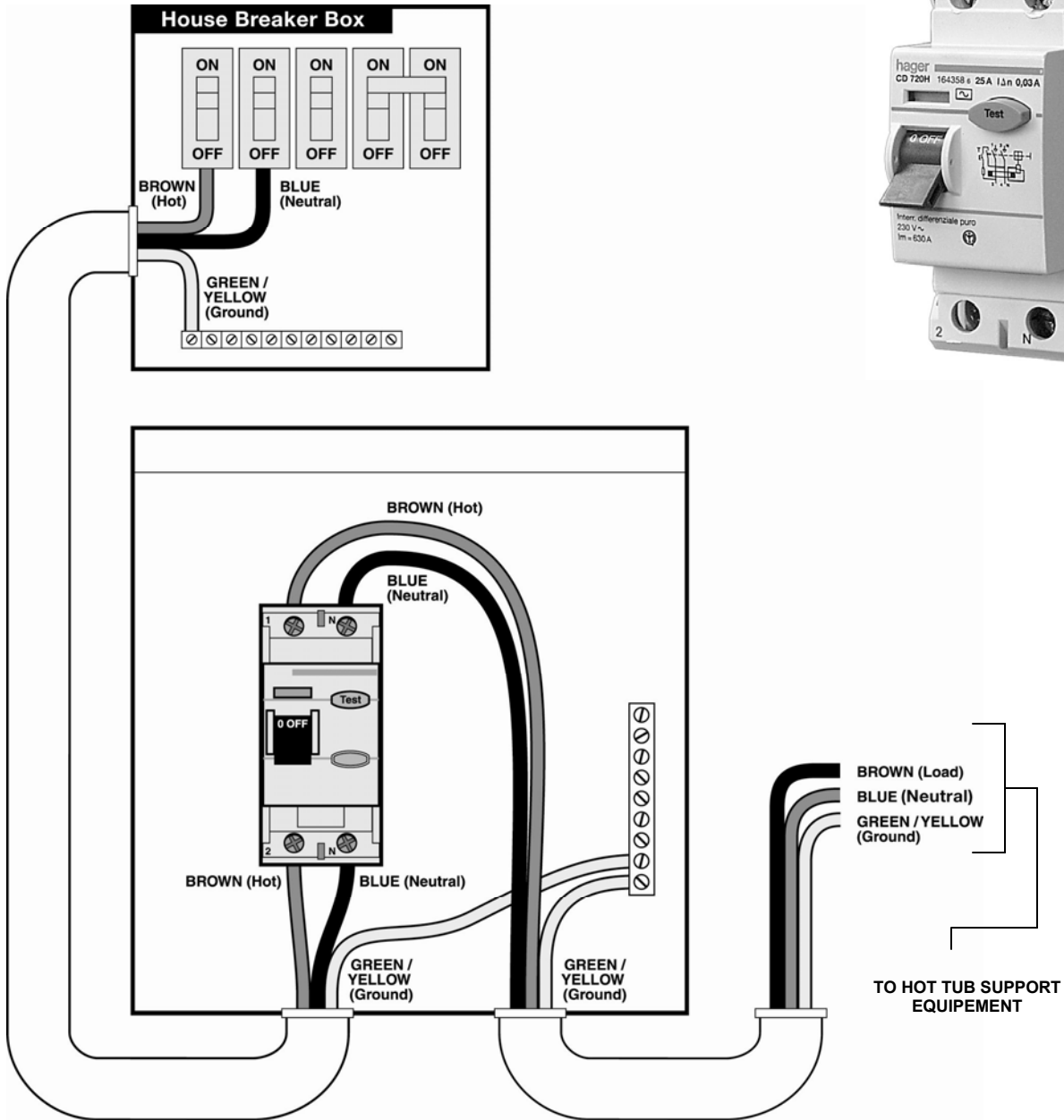


## EUROPE – R.C.D. INSTALLATION - TYPICAL



### NOTICE

**Important Note:** Installation of the R.C.D. - Circuit Breaker, including ampere sizing and selection of conductor size and type, must be performed by a qualified electrician in accordance with National, Regional and Local Codes and Regulations in effect at the time of installation.



## ACCESSORIES

### LOUNGE PILLOWS

The lounge pillows are pre-installed at the factory and are attached via friction fit. To remove, grasp the ends of the pillow and lift up from the hot tub seat. To reinstall, reverse the procedure.

**NOTE: When not in use, remove the pillows to extend the life of the pillow.**



### FILTER LID

The filter lid provides that finishing touch to your HydroPool hot tub. Simply place the lid over the opening for a finished appearance.



### SAFETY HARDCOVER LOCKS

The ASTM approved safety hard cover is designed to open away from the control area, however, if the hot tub is symmetrical in dimension, the cover can be oriented to open in either direction. Simply place the cover on the hot tub, pull the straps down so that they are fully extended, then release slightly so that there is approximately 6 mm (1/4 in.) of slack. Mark the position on the cabinet, and fasten the receiver clip with the screws provided.

## CAUTION



Always ensure the safety hard cover is in place and locked whenever the hot tub is not being used. Failure to do so may cause damage or cracking to the acrylic surface not covered under the warranty.



### OPTIONAL DREAM SCENTS AROMATHERAPY SYSTEM

Operational Instructions:

This exclusive aromatherapy system is independent from the Hydroflex Air Therapy System and uses liquid scents.

**To operate the system is very simple:**

1) To fill, begin by opening the cap "counterclockwise" on the unit and remove. There are arrows on the cap to indicate the direction in which to turn the cap to open. Then fill the reservoir with your favorite Dream scents liquid scent (or equivalent).

To replace cap perform the reverse of the above directions.

2) Now the system is ready to work: just push the button to release the scent into the hot tub and repeat to add more liquid scent as desired, please note by turning the button clockwise you can lock it so that any accidental pushing of the button will not result in adding unwanted liquid scent when not desired. To unlock turn button counter-clockwise.



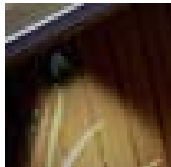
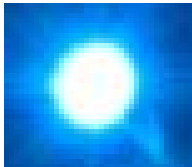
### OPTIONAL COVER REMOVER

HydroPool offers several different devices to assist in the removal of the safety hard cover. Please refer to the instructions supplied with your particular cover remover for installation. For further information, contact your local HydroPool retailer.



**OPTIONAL DELUXE LED GARDEN FX LIGHTING**

HydroPool's optional Deluxe LED and Garden FX lighting includes 4 interior lights and 2 exterior cabinet lights allowing you to enter and exit your hot tub safely and easily while providing you premium mood accent lighting while enjoying your therapeutic massage.



**OPTIONAL STARLIGHTS**

HydroPool's optional Starlights upgrade offers you strategically placed lighting that illuminates the top lip area of your spa. They are brilliantly colored and sequence through a range of colors when turned on or can be locked onto one preferred color.



**OPTIONAL STEPS**

HydroPool's optional two-tier step makes entering and exiting your hot tub safe and easy. These steps are available in Clear Cedar, or in various Everlast finishes.



**OPTIONAL I-COMMAND SYSTEM (Home & World Edition)**

The Smart Phone App that is designed as a wireless hot tub control which allows you to pick the water care settings that fit your schedule. Adjust filtration and temperature settings and create the ideal hot tub experience from inside your home. This option is supported by your iPhone®, iPod touch®, iPad® or Android phones.



If your hot tub comes with this option installed, you need to activate the App Store Icon from your IPOD menu. Type in **“Balboa Water Group”** into the search field to find the application and download from iTunes using your user name and password.

1. Go to the Wi-Fi Networks screen by touching the Settings Icon.
2. Touch the Wi-Fi on the Settings page. **Note:** If Wi-Fi is not currently turned on, touch the Wi-Fi line at the top right of the list.
3. The Spa Control network link will appear as BWGSpa\_XXXXXX in the 'Choose a Network' list. **Note:** XXXXXX are the last 6 characters in the address of the module. **(NOTE: Both your hot tub and your iDevice must be in range of your home WiFi System to ensure proper operation. There may be additional costs depending on what App Edition you use).**

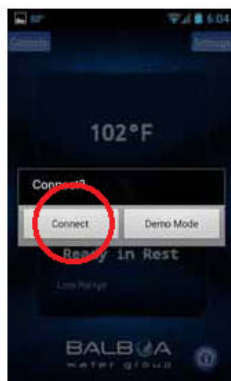
**OPTIONAL I-COMMAND SYSTEM (Home & World Edition - continued)**

START FROM YOUR SCREEN

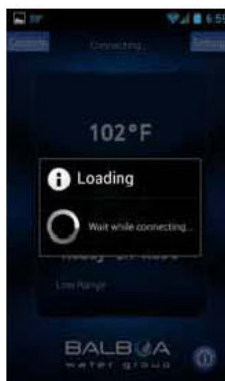


Press the bwa app button.

WAIT UNTIL YOU ARE CONNECTED

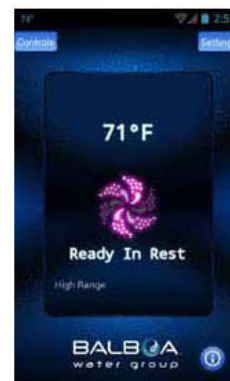


Connect to the spa.



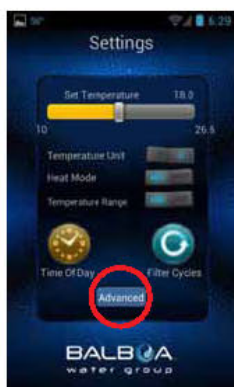
When connected, you will be taken to the main app screen.

bwa™ APP MAIN SCREEN



You are now directly connected to your tub and can control all the hot tub functions via the bwa™ app.

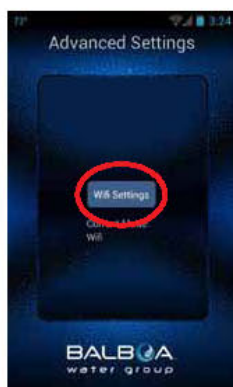
SETTINGS SCREEN



The Settings screen allows you to select the temperature of the spa, change the temperature between F & C, set time of day, filter cycles and more.

Press the Advanced button to setup your Wi-Fi.

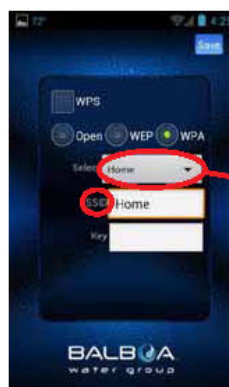
ADVANCED SETTINGS



Now select the Wi-Fi Settings button, to select your home network and enter your password.

For Android™ setup continue on to the next page, for iOS® setup skip to page 18.

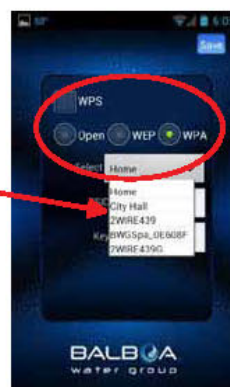
THE WI-FI SCREEN



On the Wi-Fi screen you can use the drop down menu to select your network SSID or you can enter it in the SSID box.

You will also need to choose the type of password encryption you are using: Open, WEP, or WPA.

Note: bwa™ clouds currently only support Open, WEP and WPA.

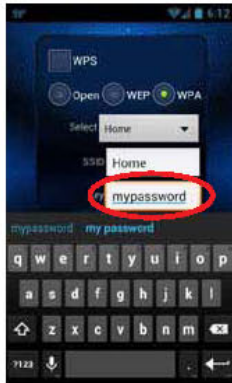


If you have a router that supports WPS provisioning, select that box and press the WPS button on your home router.

Not all routers support the WPS function. Check your router's instructions for more details.

**OPTIONAL I-COMMAND SYSTEM (Home & World Edition - continued)**

**ENTER PASSWORD SCREEN**



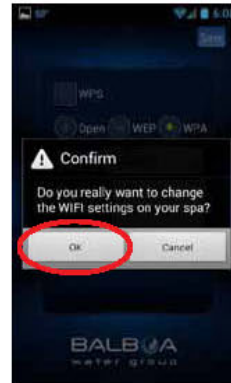
Select the Key text box to enter your password if you have one. Type it in using the keyboard. Use the back/return key when finished entering you password. (Android™ use the back key)

**CONFIRM SCREEN**



Now you will save the password to the hot tub and the tub will be ready to connect to your network.

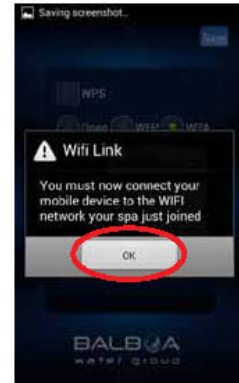
Press the Save Button.



Now you will save the password to the hot tub and the tub will be ready to connect to your network.

Press the Save Button.

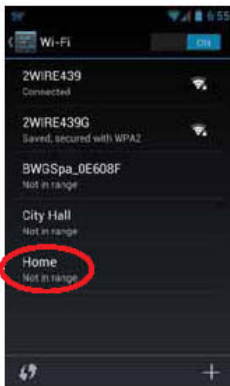
**WI-FI LINK SCREEN**



You may need to connect to your home network after you save the password.

Exit the app and make sure you are connected to your home network.

**YOUR SMARTPHONE WI-FI SCREEN**



If you have your home network setup to automatically connect, the bwa app will re-connect.

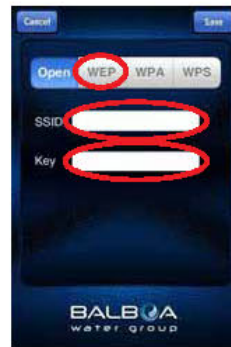
You may need to manually connect to your local/home network.



Restart the app and connect to the tub which will now be connected to your local/home network.

You can now control your tub anywhere you can connect to your local/home network. To continue the setup, go to page 18.

**bwa™ WEP SETUP**

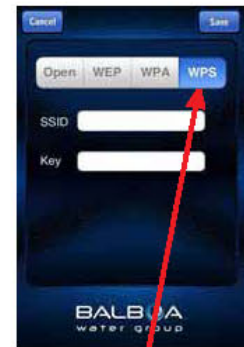


iOS setup is similar to Android except you will need to type in your SSID and Key (Password) using your keyboard.

You will also need to choose the type of password encryption you are using: Open, WEP, or WPA.

Note: bwa™ clouds currently only support Open, WEP, and WPA.

**bwa™ WPS SETUP**



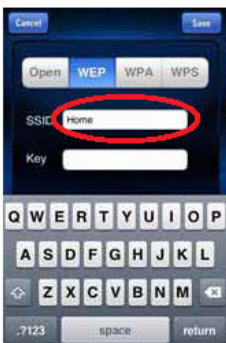
If you have a router that supports WPS provisioning, select that button and press the WPS button on your home router.

Not all routers support the WPS function. Check your router's instructions for more details.



**OPTIONAL I-COMMAND SYSTEM (Home & World Edition - continued)**

**bwa™ WEP SETUP**



Type in the Service Set Identifier (SSID) this is the name of your wireless network.



Then select the Key text box to enter your password if you have one. Type it in using the keyboard.



Now you will save the SSID & password to the hot tub and the tub will be ready to connect to your network.



You may need to go your settings and connect to your local/home network after you save the password and restart the app.

The BWG Spa network will now disconnect and you will be controlling your tub via your local/home network.

Exit the app and make sure you are connected to your home network.



If you have your home network setup to automatically connect, the bwa app will re-connect.

You may need to manually connect to your local/home network.



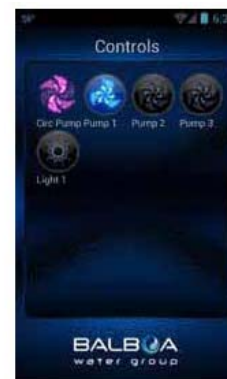
Restart the app and connect to the tub which will now be connected to your local/home network.

You can now control your tub anywhere you can connect to your local/home network.



You should now be connected to your local/home network.

**CONTROLS MENU**



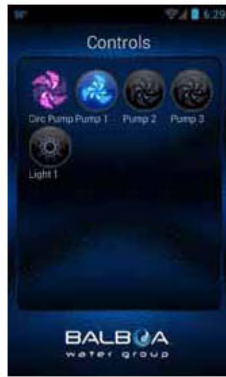
You can now turn on your pumps & lights by pressing the Controls button.

On Android™, use the back/return key to return to the main app screen.

**OPTIONAL I-COMMAND SYSTEM (Home & World Edition - continued)**

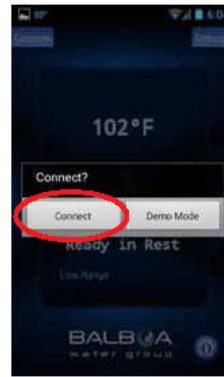


On iOS devices, you will see a Back Button that you will use for navigating between screens.



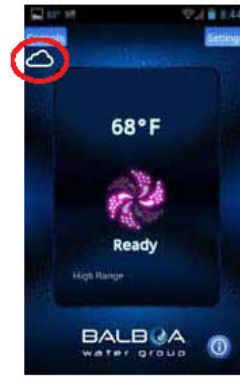
You can now turn on your pumps & lights by pressing the Controls button.

The equipment for your tub will automatically show up on this screen. You can turn the devices on/off by pressing the buttons.



If you want to control your tub away from your local/home network, make sure you have an Internet connection on your device (3G/4G/Hotspot).

Start the app and press the Connection button. Now you can control your tub via the Internet and can control your tub via your local/home network.



When connected via the Internet a small cloud icon will appear under the Controls button letting you know that you are remotely connected.

Operate your spa by going to the Controls screen.

## FILLING, CHECKING AND STARTING YOUR HOT TUB



### FILLING

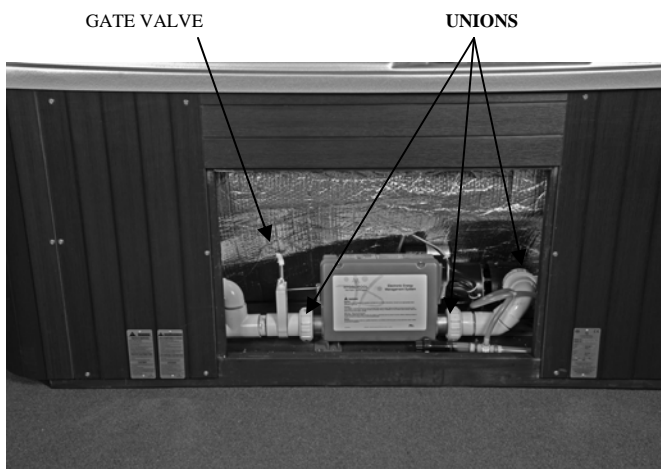
- When adding water for the first time, the hot tub should be filled through the skimmer opening (helps to prevent air locks) using a standard garden hose, turning the tap on slowly to prevent damage to the surface by a jerking hose connection.

- Ensure the handles on the intake and return gate valves are pulled up and stem locks are in place.

- Ensure the drain hose-bib is closed.

- Ensure that all jets are open. See section **JET & FEATURE OPERATION**

- Fill the hot tub to the recommended level, approximately 4 inches above the top of the skimmer opening.



### CHECKING

- Although your hot tub was thoroughly water-tested in the factory, some loosening of fittings can occur during shipping. Before any decking, tiling or carpeting is completed around the installation, fill and operate your hot tub to test for leaks (this ensures easy access and inexpensive correction). Check all union connections and plumbing for minor leaks. In the event of a leak, ensure all union connections and pump plugs are tight and all o-rings/gaskets are in place.

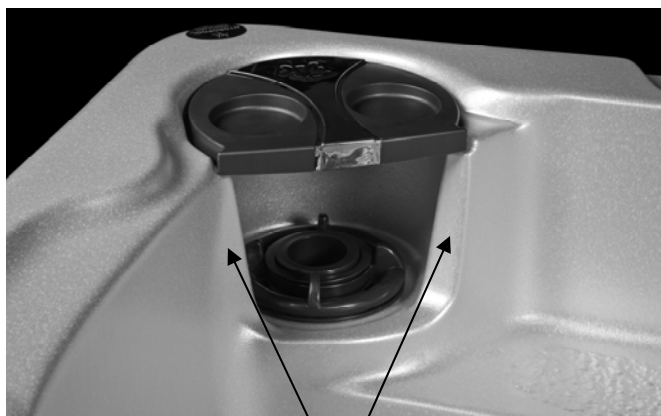
### STARTING

- Before applying voltage to power-up your hot tub, it is very important that you understand the sequence of events that occur when the system is activated in order that the pump can be primed efficiently and damage to the system can be avoided.

- Turn the main power “on” at your electrical panel.

- Follow the control instructions for your particular model hot tub to put the pump into low speed **see section HYDROPOOL CONTROL SYSTEMS PUMP PRIMING/RELEASING AN AIR LOCK**

- On some systems a message will appear on the display indicating that the system is in PUMP PRIMING MODE (“RUN PMPS PURG AIR”). This mode will last for 4 minutes before automatically entering the normal operation mode. **See complete details for your spa in section HYDROPOOL CONTROL SYSTEMS**



**PROPER WATER LEVEL AT SKIMMER OPENING**

**Definition:** ‘Priming’ a pump is a term used to describe the process in which air trapped in the plumbing and pump wet-end (referred to as an ‘air lock’) is released, allowing the pump to move water efficiently through the plumbing system and to the jets.

O- RING / GASKET AT UNION CONNECTIONS

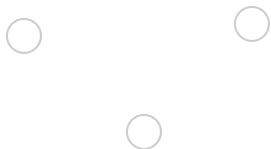


...THROUGH THE PUMP UNION

RELEASING AN AIR LOCK...



- The water should start circulating immediately. If the motor works **but if you** do not notice water circulation within the first 15 seconds, the pump may require priming due to trapped air (referred to as an 'air lock'). If the pumps have not self-primed after 2 minutes, and water is not flowing from the jets, DO NOT allow the pumps to continue to run. Turn power off at the main house panel (or GFCI) and try releasing the air by loosening the union on the discharge side of the pump(s) while the motor is not running. Turn the power back on. If the pumps do not prime after 15 seconds, sometimes momentarily turning the pump(s) off and on will help the system to prime (note: do not do this more than 5 times). **Repeat if necessary.**
- Important: Under NO circumstances should the pump(s) be allowed to operate without priming beyond 5 minutes, as this may not only cause unwarrantable damage to the pump, it may also cause the control system to go into an overheat condition.
- Turn the hydrotherapy pump(s) onto high speed and re-check for leaks. The control system will automatically return the pump to low speed after 15 minutes.
- Adjust the hot tub heat control at the topside panel to the desired water temperature.
- Adjust water balance (pH, TA, calcium hardness) to recommended levels and add sanitizer once the water temperature reaches 20°C (68°F). **See section HOT TUB WATER BALANCE**
- Keep insulated safety hard cover on the hot tub, and the air controls closed during the entire heat up process.



## HYDROPOOL SERENITY SERIES CONTROL SYSTEMS

NORTH AMERICA / EUROPE

### HYDROPOOL SERENITY – ALL SERIES

#### INITIAL START-UP

Before applying voltage to power-up your hot tub, it is very important that you understand the sequence of events that occur when the system is activated in order that the pump can be primed efficiently and damage to the system can be avoided.

At initial power-up, this display will appear, and the system will show 4 sets of numbers in succession as follows (**M100, \_200, V6 and 240V**). These numbers represent the current software revision, and the system input voltage. After the initial software indicators are shown, the display will show “**RUN PMPS PURG AIR**”. This display is indicating that the system is in **PUMP PRIMING MODE**. This mode will last for 4 minutes before automatically exiting and entering the normal operation mode. You can also manually exit **PUMP PRIMING MODE** by pressing any **TEMP** button.

While in this mode, the heater circuit is disabled to allow the priming process to be completed without the possibility of energizing the heater element during low flow or no flow conditions. The system will not automatically activate any of the functions, however, by pushing the pad on the topside control, the pump can be manually activated to facilitate priming.

**DEFINITION:** ‘Priming’ a pump is a term used to describe the process in which air trapped in the plumbing and pump wet-end (referred to as an ‘air lock’) is released, allowing the pump to move water efficiently through the plumbing system and to the jets.

#### PUMP PRIMING MODE

As soon as “**RUN PMPS PURG AIR**” is indicated on the topside panel, push the pad to start Pump 1 in low speed, then again to switch to high speed to facilitate priming. **See FILLING, CHECKING AND STARTING YOUR HOT TUB for complete instructions on pump priming.**

Once pump priming has been successfully completed, press the pad to turn off the pump.

Next, manually exit **PRIMING MODE** by pressing any “**TEMP**” button. If you do not manually exit **PRIMING MODE**, it will automatically terminate after 4 minutes. Be sure that the pump is primed before exiting this mode.

#### TEMPERATURE CONTROL FUNCTIONALITY AND ADJUSTMENT

##### SET TIME

After the system exits **PRIMING MODE**, it will ask you to “**SET TIME**”. See the instructions on the following pages. After you manually exit or the system automatically exits Priming Mode, your hot tub will automatically heat to the factory preset default temperature of 38°C (100°F). The topside panel will briefly show the default temperature, and then the display will appear as follows:

Note that the water temperature is not yet displayed, as the system requires approximately 2 minutes of water flow through the heater to determine temperature. This is referred to as ‘polling’ and is indicated on the display by the icon. After 2 minutes the display will show the current measured water temperature.

Press the pad to increase the temperature to the desired setting. The Heat indicator light on the Topside Panel will shimmer for 90 seconds, indicating that the system is not yet heating, then will illuminate solidly to indicate that the heater circuit has been energized and the spa water is being heated.

In Standard Operating Mode, the system automatically activates Pump 1 low speed every 30 minutes for at least 2 minutes.

After 2 minutes, the spa water temperature is determined. At this point, if the water temperature is lower than the set temperature, P1 will continue to run and the Heat indicator light on the Topside Panel will illuminate. The heater will operate until the water temperature reaches the set temperature point, after which, both the heater and Pump 1 low will automatically turn off.

##### TO CHECK/CHANGE THE SET TEMPERATURE

The last measured temperature is constantly displayed on the topside panel. When this pad is pressed once any time during normal operation, the display will show the set temperature for 3 seconds. Press this pad a second time to increase or decrease the set temperature. To change the direction of the temperature settings (ie. lower vs. raise the temperature), allow the display to revert back to the current water temperature then press the pad again.

##### TEMPERATURE RANGES

High Range can be set between 27°C (80°F) and 40°C (104°F) in 1° increments.

Low Range can be set between 10°C (50°F) and 37°C (99°F) in 1° increments.

##### HEATER FUNCTION

For Europe, the heater operates with pump low-speed only, and turns off when ever pump high-speed or blower is activated. For North American models the heater is on at all times provided there is a demand for heat.

## HYDROPOOL SERENITY SERIES CONTROL SYSTEMS

NORTH AMERICA / EUROPE

HYDROPOOL SERENITY – GOLD SERIES



### KEYPAD FUNCTIONS



**JET KEY WHICH CONTROLS PUMP 1**



**TEMP + KEY WHICH CONTROLS THE TEMPERATURE AND SCROLLS THROUGH THE MENUS**



**ILLUM KEY WHICH CONTROLS THE LIGHTING AND ACTIVATES THE LOW LEVEL PROGRAMMING**



**INVERT KEY WHICH TOGGLES THE DISPLAY SO THAT IT CAN BE VIEWED FROM INSIDE THE HOT TUB**



**TEMP - KEY WHICH CONTROLS THE TEMPERATURE AND SCROLLS THROUGH THE MENUS**

## HYDROPOOL SERENITY SERIES CONTROL SYSTEMS

NORTH AMERICA / EUROPE

HYDROPOOL SERENITY – PLATINUM SERIES



### KEYPAD FUNCTIONS



**JET 1 KEY WHICH CONTROLS PUMP 1**



**JET 2 KEY WHICH CONTROLS PUMP 2**



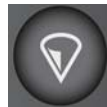
**INVERT KEY WHICH TOGGLES THE DISPLAY SO THAT IT CAN BE VIEWED FROM INSIDE THE HOT TUB**



**TEMP + KEY WHICH CONTROLS THE TEMPERATURE AND SCROLLS THROUGH THE MENU**



**ILLUM KEY WHICH CONTROLS THE LIGHTING AND ACTIVATES THE LOW LEVEL PROGRAMMING**



**TEMP - KEY WHICH CONTROLS THE TEMPERATURE AND SCROLLS THROUGH THE MENU**

## PUMP / JETS FUNCTION



Press this pad to activate pump 1 and pump 2 (if equipped)

- 1st press** – turns on low speed (P1 only)
- 2nd press** – turns on high speed (1st press P2)
- 3rd press** – turns off pump (2nd press P2)



When low speed is already operating, the 1st press of the pad puts the pump directly into high speed.

Low speed starts automatically for 1 minute every 30 minutes to detect the spa temperature (polling) and then to heat to the set temperature if needed. (in **READY Mode only – see MODE FUNCTION**), or when a filter cycle is activated, or when a freeze condition is detected.

### PUMP AUTOMATIC TIME-OUT

- High speed** – 15 minutes
- Low speed** – 30 minutes

### FILTER CYCLES

The system is factory programmed with one filter cycle that will run in the evening (assuming the time of day is properly set) when energy rates are lower. The filter time and duration are programmable. A second filter cycle can be enabled and programmed as needed. We recommend you start with as long a filter cycle as possible and over time, if you wish, you can reduce your filter cycles depending on your usage, chemical program and overall water quality.

At the start of each filter cycle Pump 2 (if there is one) will run briefly to purge its plumbing and maintain good water quality. The factory default is 4 hours per filter cycle.

### PROGRAMMING FILTER CYCLES

To change the factory default filter cycle settings

At the main screen, begin by pressing TEMP



Press LIGHT repeatedly until FLTR appears



Press TEMP to advance to the beginning of the time setting process for filtration. (F1 or F2)



TEMP advances to the first screen to change the time for F1 or F2. (BEGN will appear)



The hour will flash. Press TEMP to change the hour



Press LIGHT to advance to minutes



Press TEMP to change the minutes



F1 F2

Press LIGHT (once for F1, twice for F2 to set the Run Hours



Press TEMP to begin hour change for F1 or F2

Each TEMP press increments the hours

LIGHT press advances to minutes

Each TEMP press advances the time 15 minutes

Press LIGHT when finished

## MODE FUNCTION (Ready and Rest)

A combination of keypads is used to change hot tub operation to either **'READY'** or **'REST'** mode.

### READY MODE

READY mode will circulate the water every 30 minutes, using Pump1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as "polling".

### REST MODE

REST mode will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the heater pump has been running for a minute or two.

### PROGRAMMING MODE FUNCTION

Press TEMP



Press LIGHT repeatedly until MODE appears



In MODE, TEMP button toggles between SET READY and SET REST



Choose SET READY or SET REST, then press LIGHT to set and exit.



### SETTING THE CLOCK

At the main screen, begin by pressing TEMP

Press LIGHT repeatedly until TIME appears

Press TEMP at TIME (HRS begin to flash)

Press TEMP keys to change hours

Press LIGHT (minutes begin to flash)

Press TEMP keys to change minutes

Press LIGHT to exit





## HOLD MODE (STANDBY)

The HOLD (standby) feature stops the system from operating automatically, allowing for convenient filter cartridge removal and replacement.

The following pads must be pressed.

Press TEMP



Press LIGHT repeatedly until "HOLD" appears

Press TEMP to start 60 minute count down

The system will automatically exit HOLD (Standby) Mode after 1 hour and resume normal operating functions.

Press then the pad - the display will flash.

If the system is heating when HOLD (Standby) Mode is activated, the display will flash and the pump will continue to operate for 15 seconds to allow the heater to cool off before stopping.

## TEMPERATURE RANGES

The **TEMP** feature allows you to select a low and high temperature range depending on your climate and time of year. The settings are as follows:

High Range can be set between 27°C (80°F) and 40°C (104°F) in 1° increments.

Low Range can be set between 10°C (50°F) and 37°C (99°F) in 1° increments.

To change your selection press the following sequence.

Press TEMP



Press LIGHT repeatedly until TEMP appears



Press TEMP to select the range (HIGH "▲" or low "▼")



Press LIGHT to lock in the Temperature Range



## LOCK (RESTRICTING PANEL OPERATION)

Locking the panel prevents the spa from being used; it also prevents unwanted temperature adjustments. All automatic functions are still active/ Locking the Temperature allows jets and other features to be used, but the set temperature and other programmed settings cannot be adjusted.

Press TEMP

Press LIGHT repeatedly until LOCK appears

Press TEMP

Press LIGHT to toggle between TEMP and PANL

Press TEMP to toggle ON or OFF

Press LIGHT to exit



## UNLOCK (ALLOWING PANEL OPERATION)

This unlock sequence may be used from any screen that may be displayed on a restricted panel.

Press TEMP. LOCK will appear on the display

Press and hold TEMP while pressing LIGHT twice. UNLK will appear on screen and then will exit the menu.



## INVERT

Pressing this key will toggle the display so that it is readily visible from inside the spa when you are using it.



## PURGE (CLEAN-UP) CYCLES

When a pump or blower is turned on by a button press, a clean up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and ozone generator will run for 20 minutes or more, depending on the system.

## OPTIONAL OZONATOR

The ozonator operates during **FILTER CYCLES** only when Pump 1 is on low speed.

## FREEZE PROTECTION

If the temperature sensor detects a drop to 4°C (39°F) within the heater chamber, the system automatically activates the pump to provide freeze protection. The pump will operate until the temperature reaches approximately 5°C (41°F) before returning to normal system mode.

## TOPSIDE PANEL DISPLAY MESSAGES

### OHH/HTR TEMP LMT/OH/HL (solid or flashing)

Overheat – Spa has shut down. One of the sensors has detected 48°C (119°F) at the heater.

**DO NOT ENTER WATER!** Remove cover and allow water to cool. Reset system by pressing any topside control panel pad. If system does not reset, shut off power and call your dealer.

### POSSIBLE CAUSES OF OVERHEATING

- filter cycle too long or overlapping (pump running for extended periods of time)
- isolation/gate valves partially closed
- extremely hot weather/high ambient temperatures
- defective sensor wire

### ICE/FREEZE COND

Potential freeze condition detected. Pumps and blower will automatically activate when temperature drops to 4°C (39°F) regardless of operation mode.

### SnA/SENSOR A SERVICE RQD

Spa has shut down – sensor plugged into Sensor 'A' port not working.

### SnB/SENSOR B SERVICE RQD

Spa has shut down – sensor plugged into Sensor 'B' port not working.

### SnS/SENSOR SYNC

Sensors are out of balance – If topside display alternates between temperature and SNS, then occurrence may be temporary and will correct itself. The spa shuts down completely when the SNS message is flashing on the display.

### HFL/HTR FLOW LOW

A substantial difference in temperature between the sensors has been detected – this could indicate a flow problem. Check water level in spa and add if necessary, also ensure the filter is clean. If water level is okay, make sure that pumps are primed and all gate valves are fully opened.

### LF/LOW FLOW

Persistent low flow problem – displays on the fifth occurrence of an HFL message within a 24 hour period. Heater circuit is deactivated but other spa functions continue to operate normally. Check water level in spa and add if necessary, also ensure the filter is clean. If water level is okay, make sure that pumps are primed and all gate valves are fully opened. Press any topside panel pad to reset.

## TOPSIDE PANEL DISPLAY MESSAGES CONTINUED

*dr / HEATER MAY BE DRY-WILL RETEST SHORTLY*

Inadequate water detected in heater chamber - Check water level in spa and add if necessary. If water level is okay, make sure that pumps are primed and all gate valves are fully opened. Press any topside panel pad to reset.

*dry / HEATER DRY SERVICE REQ*

Inadequate water detected in heater chamber – displays on third occurrence of a “dr” message within a 24 hour period. The spa shuts down completely when the DRY message is flashing on the display. Check water level in spa and add if necessary, also ensure the filter is clean. If water level is okay, make sure that pumps are primed and all gate valves are fully opened. Press any topside panel pad to reset.

### RUN PMPS PURG AIR

Priming mode – occurs when spa is first powered up, or when power has been restored after a power interruption. Allows for safe priming of the pumps. **See section HydroPool Serenity Control Systems for complete details.**

*--- / -- F / -- C*

Temperature unknown – after the pump has been operating for 2 minutes, the current water temperature will be displayed.

-----

Temperature is not current as the pump may have been off for several hours in between filter cycles. To view the current spa water temperature, either switch to Ready mode or turn on the pump for at least 2 minutes.

HOLD

Stops the control system from operating automatically to allow filter cartridge removal.

READY

System is operating in READY mode. **See section HydroPool Serenity Control Systems for complete details.**

REST

System is operating in REST mode. **See section HydroPool Serenity Control Systems for complete details.**

COOL

If spa water temperature is more than 7°C (20°F) cooler than the set temperature, the system will automatically activate the heater to provide freeze protection. This is a normal function; no corrective action is necessary.

### OPTIONAL VARIABLE AIR THERAPY SYSTEM CONTROL FUNCTIONS:

**Press:** Blower button on main control to activate system.

#### 1) ON/OFF :

**Press 1:** The Blower starts at maximum Speed. LED: ON

**Press 2:** The blower stops. LED: OFF

#### 2) TO CONTROL SPEED:

**Press 1 and hold:** Speed goes up or down, LED: ON when pressing. Release pressure at the desired speed.

#### 3) TO CONTROL PULSATION:

**Press 1:** Slow Pulsation Cycle, LED: ON.

**Press 2:** Quick Pulsation Cycle, LED: Flashes.

**Press 3:** Pulsation Cycle OFF, LED: OFF.



## JET AND FEATURE OPERATION



### JET WATER FLOW ADJUSTMENT

Your Hydropool hot tub features adjustable water flow on specific hydrotherapy jets. To reduce the flow: grasp the outer flange of the jet, and turn clockwise approximately a 1/4 turn. When it hits the stop, the jet is considered closed, and flow will be restricted. To increase the flow: from the closed position, turn the jet counterclockwise approximately 1/4 turn. When it hits the stop, the jet is open, and there is maximum jet flow. Do not attempt to turn the jet past the stop, as this will unclip the jet internal from the socket.

### JET AIR FLOW ADJUSTMENT

Your Hydropool hot tub features adjustable airflow on specific hydrotherapy jets. To stop the flow: push the toggle button to the off position. When it hits the stop, the air is closed, and airflow will be restricted. To turn on the flow: push the toggle button to the on position. When it hits the stop, the air control is fully opened. For maximum operating efficiency, the air controls must remain closed when your hot tub is not in use.



### INTERCHANGING JET INSERTS

A great feature for custom tailoring the jets in your Hydropool hot tub to suit your personal hydrotherapy needs. Jets of like size and dimension may be interchanged with each other, for example, if you wished to swap a Poly Storm Directional jet for a Poly Storm Twin Roto jet, or a Mini Storm Twin Roto jet for a Mini Storm Directional jet.

### CLEANING STAINLESS STEEL JETS:

Use a Cleaner such as Brasso or Stainless Steel Cleaner to bring back the lustre to your Stainless Steel parts after each drain and fill. This must be done otherwise the stainless steel will discolor and possibly rust due to chemical exposure.

### CLEANING OPTIONAL SERENITY FALLS JETS

- 1 Put hot tub in Stand By Mode.
- 2 Rotate outer ring of Cascading Jet Counter Clockwise to remove cover.
- 3 Grab center nozzle, pull it out to clean and then rinse.
- 4 Reassemble in reverse order.



## JET INSERT REMOVAL & REPLACEMENT

### POLY/MINI STORM DIRECTIONAL, TWIN ROTO & POWER TWIN ROTO

**TO REMOVE:**

- Turn the jet counter-clockwise to unclip & pull out of socket.

**TO RE-INSTALL:**

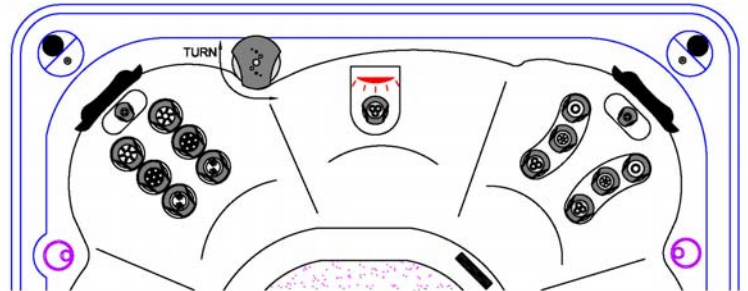
- Push the jet into the socket until it snaps into place, ensuring the square pin on the back of the jet lines-up with the groove in the socket flange.



**DIVERTER VALVE**

Your HYDROPOOL hot tub is equipped with a diverter valve. It allows you to direct the flow of the water to different zones in your hot tub.

**ALWAYS:** return the valve handle to the middle position before exiting the hot tub.



**SERENITYFALLS CONTROL OPTIONAL**

If your hot tub was ordered with the optional Serenity Falls water feature, then you will have a waterfall flow control valve. The waterfall feature was designed to provide a gentle cascade of water into the bathing area of the spa. Simply turn the top of the control clockwise for less water flow, and counterclockwise for more water flow.



## OPTIONAL SERENITY SOUND AUDIO AND DOCKING STATION

### DOCKING YOUR AUDIO DEVICE

The Docking Station is compatible with all alternate audio sources such as IPOD and MP3 players.

**To install any audio device:**

- 1 Locate and open the Docking Station door by gently pulling upward on the handle.
- 2 Remove the connector cover prior to plugging in your audio source. Always keep the cover on when the docking station is not in use.
- 3 Center the device over the Docking Station Adaptor and connect.
- 4 Close the Docking Station door once you have begun using your device.



Audio source placement in pop out tray (device not included)

### SERENITY SOUND STEREO RECEIVER

#### FRONT PANEL LAYOUT

- |                    |   |
|--------------------|---|
| <b>POWER</b>       | Power On/Off button (once powered on, a long press of the power button results in power off. A quick press of the power button results in a "MUTE" function). |
| <b>VOL+</b>        | VOL + Volume Increase Button  |
| <b>VOL -</b>       | VOL - Volume Decrease Button  |
| <b>MODE</b>        | Mode Button   |
| <b>DOWN ARROW</b>  | Track Down Button   |
| <b>UP ARROW</b>    | Track Up Button   |
| <b>BAND &gt;  </b> | Use the >   portion to Play/Pause the USB stick function.   |



#### RADIO OPERATION

Press BAND button to access FM and AM.

Use the up and down arrow buttons to tune up and down. Long press each button to access manual seek mode, allowing you to go up or down the frequency scale one odd digit at a time.

## OPTIONAL SERENITY SOUND AUDIO AND DOCKING STATION (continued)

### USB OPERATION MODE (note– USB slot for USB sticks only)

For play of other brands of media, please use the auxiliary input.

- A. Insert a USB stick into the USB slot. Songs must be in mp3 or wma format.
- B. Press the up or down arrows for track up/down respectively.
- C. Press >|| button to pause the current track; press >|| again to resume the track.
- D. A long press of the up or down arrows will reverse and fast forward the current track respectively.
- E. Once you exit the spa, always remove the USB stick from the USB port so as to prevent damage to the stick.

### AUXILIARY INPUT MODE

- A. Press the **MODE** button until “**AUX**” appears on the LCD screen.
- B. The use of auxiliary mode allows you to play the portable music device through the headphone jack. In order to accomplish this, an auxiliary adaptor must be used.

### BASS, TREBLE, BALANCE, FADER, LOUD, EQUALIZER, AREA TUNING

- A. To adjust bass, treble, balance and fader, long press the **MODE** button until the **BAS** feature appears. If you want to change the bass then use the **VOL +** or **VOL -** button. To adjust the treble, balance, and fader setting, long press the **MODE** button until the **BAS** feature appears, then quickly press the **MODE** button until **TRE** appears. Repeat this step for balance (**BAL**), and fader (**FAD**). Adjust with the **VOL +** or **VOL -** buttons.
- B. To enter **LOUD** mode, long press the **MODE** button until **BAS** appears, then quickly press the mode button until **LOUD** appears. Adjust to either ON or OFF using the **VOL +** or **VOL -** buttons.
- C. To enter a specific equalizer setting, long press the **MODE** button until **BAS** appears, then quickly press the **MODE** button until **EQ** appears. Use the **VOL +** or **VOL -** buttons to adjust (options include FLAT, CLASSIC, POP, ROCK or EQ OFF).
- D. To enter **AREA** tuning mode, long press the **MODE** button until **BAS** appears, then quickly press the **MODE** button until **AREA** appears. Use the **VOL +** or **VOL -** to designate between US and European frequency.

### CLOCK ADJUSTMENT

Clock display and adjustment: Long press the **BAND** button until the time displays. While the time is displayed, long press the **BAND** button again until the hour is flashing. Then adjust the hour with the volume buttons. Once the hour is set, quick press the **BAND** button again until the minutes are flashing then adjust with the volume buttons. The new time setting will be accepted automatically.

## HOT TUB WATER BALANCE – GENERAL OVERVIEW

### NOTABLE POINTS

- The reliability and longevity of your hot tub support equipment are directly related to how well water quality is maintained!
- The small volume of water in your hot tub is easily affected by the introduction of oils, lotions, perspiration and chemicals. It is imperative that you give your hot tub regular attention to maintain clean, safe and balanced water to prevent premature damage and/or failure (corrosion/calcification) to the support equipment. Maintaining proper hot tub water balance and sanitizer levels is extremely important. Neglected hot water will allow bacteria to quickly spread.
- The mineral content of hot tub water increases due to water evaporation, sanitizers and other chemicals. If the mineral concentration, particularly calcium, becomes too high, the minerals will literally “drop” or precipitate out of the water and deposit on the hot tub walls, plumbing, jets, in the filter and on the heater element.
- It is very important that pH be checked frequently and maintained in the recommended range as indicated in the chart **WATER BALANCE SUMMARY FOR YOUR HOT TUB**
- It is also very important that Total Alkalinity (the ability of the water to resist a change in pH) be maintained in the recommended range as indicated in the chart **WATER BALANCE SUMMARY FOR YOUR HOT TUB**
- Although there may be two identical hot tub models right next door to each other, the maintenance requirements will be different, dependant on such factors as:
  - bather load
  - frequency of use/quantity of bathers
  - different body chemistry
  - sun vs. shade
  - temperature

For these reasons, it is very important to develop proper hot tub water maintenance habits and follow your HydroPool retailer's recommended water maintenance procedures.



**Heater and other component failure due to improper water balance is not covered under warranty.**



### WARNING

#### CHEMICAL HANDLING SAFETY HINTS

- **Never pre-mix chemicals with each other prior to adding to hot tub water.**
- **Add only one chemical to the water at a time.**
- **Always add chemicals to water and not vice-versa.**
- **Chemicals may be corrosive, so handle with care and store in a cool dark place.**
- **Never smoke near chemicals as most are flammable**
- **Ensure any spilled chemicals are carefully cleaned up immediately.**
- **Always have the POISON CONTROL telephone number handy in the event of an emergency.**
- **Keep chemicals out of children's reach**
- **Wear safety glasses and gloves when handling chemicals.**

#### INITIAL WATER FILL & BALANCE

- 1 Make sure the hot tub water is circulating and above 20°C (68°F)
- 2 Add a sequesterant (stain and scale controller). Allow water to circulate for an hour before adding anything else to the hot tub water.
- 3 Add a Shock / oxidizing agent .
- 4 Add sanitizing tablets (Bromine or Chlorine) to the dispenser: **Built in dispenser:** if your HydroPool hot tub was ordered with the optional built in bromine/chlorine dispenser, (located under the basket of the cartridge filter housing), **refer to section CARTRIDGE FILTER for details on removing and re-installing the lid.** Once the filter lid is removed, you'll notice a clear 2.5 cm (1 in.) tube extending from the bottom of the basket. Expose the large Refill hole at the end of the tube and add 5 or 6 tablets. Do not overfill dispenser as performance will be affected. Turn to expose the most number of smaller holes and allow water to circulate for 3 to 4 hours before testing level. Adjust to lesser number of holes as necessary to maintain a level of 2-4 PPM Sanitizer. **Floating dispenser:** As above, add 6 or 7 tablets, adjust initially to '5', allow water to circulate for 3 to 4 hours, then test. The tablets will dissolve slowly over a 10-14 day period, depending on dial setting, and use of the hot tub.
- 5) Test pH and Total Alkalinity and adjust accordingly.





## GLOSSARY OF COMMON WATER MAINTENANCE TERMS

- 1 **CHLORINE** – in granular, liquid or puck/tablet form, is an oxidant and biocidal agent. It is very effective and fast acting. Recommended chlorine residual level is 3.0 to 5.0 ppm.
- 2 **CHLORAMINES** – a compound formed when chlorine combines with nitrogen or ammonia present in the water. When allowed to go unchecked, it causes eye and skin irritation and is indicated by a strong chlorine odor.
- 3 **ONE-PART BROMINE** – also available in puck/tablet form, is another type of oxidant/biocidal agent, and is introduced into the hot tub water via a brominator. Recommended bromine residual level is 3.0 to 5.0 ppm
- 4 **TWO-PART BROMINE** – composed of a liquid or powder component introduced manually into the water on a weekly basis, and a granular component that is added daily or as the hot tub is used.
- 5 **BROMAMINES** – are formed when bromine destroys nitrogen-bearing organic matter. Unlike chloramines, bromamines don't cause eye irritation, however, when allowed to go unchecked, will cause an objectionable odour.
- 6 **SHOCK** – the practice of adding an oxidizing agent to hot tub water to destroy ammonia, nitrogenous and organic contaminants (chloramines and bromamines)
- 7 **pH** – a logarithmic value expressing the relative acidity or basicity of a substance (such as hot tub water) as indicated by the hydrogen ion concentration. pH is expressed as a number on a scale of 0 to 14, where 0 is most acidic, 1 to 7 being acidic, 7 considered neutral, 7 to 14 being basic, and 14 being most basic. The ideal range for hot tub water is 7.4 to 7.6 ppm
- 8 **pH INCREASER** – raises the pH level of the water.  
**pH DECREASER** – lowers the pH level of the water.
- 10 **TOTAL ALKALINITY (TA)** – the amount of carbonate, bicarbonate and hydroxide compounds present in the water that determines the ability or capacity of the water to resist change in pH. Also known as the 'buffering' capacity.
- 11 **ALKALINITY BOOSTER** – raises the alkalinity.
- 12 **CALCIUM HARDNESS** – the calcium portion of the total alkalinity which represents 70 to 75% of total hardness. Calcium concentrations determine whether water is 'soft' - too little calcium, or 'hard' -too much calcium.
- 13 **CALCIUM BOOSTER** – increases the calcium level.
- 14 **TOTAL DISSOLVED SOLIDS (TDS)** – a measure of the total amount of dissolved matter in the water (calcium, carbonates, bicarbonates, magnesium, metallic compounds, etc.)
- 15 **SEQUESTERANTS (STAIN AND SCALE CONTROLLERS)** – keeps dissolved metals and minerals in the water from attacking the hot tub shell and support equipment components.
- 16 **DEFOAMER** – removes foam build-up from the water surface. At best, this is a temporary remedy, as excessive foam is merely a symptom of improper water balance (typically high organic residue and/or high pH).
- 17 **CARTRIDGE FILTER CLEANER** – degreases and cleans cartridge filters.
- 18 **OZONATOR** – generates Ozone (a gaseous molecule composed of 3 atoms of oxygen) and is injected into the hot tub water for the oxidation of water contaminants.
- 19 **TEST KIT** – used to monitor specific chemical residual or demands in the water. May be in the form of litmus strips or liquid drops.
- 20 **PPM** – abbreviation for 'parts per million', the unit of measurement used in chemical testing which indicates the parts by weight in relation to one million parts by weight of water. Essentially identical to the term mg/L - milligrams per liter.

### WATER BALANCE SUMMARY FOR YOUR HOT TUB\*

SANITIZER (ppm)	MIN	IDEAL	MAX
Chlorine	1.0	3.0 - 5.0	5.0
Bromine	1.0	3.0 - 5.0	5.0
<b>CHEMICAL</b>			
PH	7.2	7.4 - 7.6	7.8
Total Alkalinity (TA)	80	80 - 120	180
Calcium Hardness	150	200 - 400	500 -1000

\*National Spa & Pool Institute recommended levels for residential spas/hot tubs

## WATER BALANCE TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Cloudy Water	Microscopic particles too small to filter out.	Test and adjust all water balance elements and add flocculent* to cause the particles to combine together so they can be filtered out. Increase filter cycle time.
High Total Alkalinity High pH levels High Calcium Hardness		Test these water balance elements and adjust to recommended parameters.
Scale (White/Grayish Deposit)	High Calcium Hardness	Test calcium hardness level and treat with sequestering agent* or perform partial drain/refill.
Skin Eye Irritation	Improper pH and/or Total Alkalinity levels	Test water balance and make the appropriate changes.
Excessive Foam	Buildup of body oils or cosmetics	If no water line is present you can try using defoamer* to break up the contaminants and then a clarifier* to help filter them away. If a water line is present the spa may need to be drained and cleaned. Either way, the filter should be thoroughly cleaned by soaking over night in bleach. An oil absorbing sponge can help in preventing this in the future. Increase filter cycle time.
	Laundry detergent residual in swimwear	Prevent by running an extra rinse cycle on washing machine or re-rinse well by hand
	Excess organic contaminants	Some organic matter is prone to causing foamy water as it breaks down in the filter (maple leaves especially). Generally using defoamer* to break up the contaminants, then a clarifier*  To help filter them away followed by thoroughly cleaning your filter will clear up the problem. It may however be necessary to drain and refill your spa if the foaming is quite excessive.
	Low Calcium Hardness	Test calcium hardness and if necessary increase with calcium chloride*
Corrosion/Etching	Presence of metals in water (iron, copper, etc)	Test total alkalinity levels and if necessary increase with sodium bicarbonate*
Discoloured Water (Clear v. turbid water)	Presence of metals in water (iron, copper, etc)	Treat with chelating* or sequestering agent*
Unstable pH	Low Total Alkalinity levels	Test total alkalinity levels and if necessary increase with sodium bicarbonate*
pH resistant to changing	High Total Alkalinity levels	Test total alkalinity levels and if necessary decrease with sodium bisulfate* or muriatic acid*
		* Contact your local HydroPool retailer for specific product recommendation

## ROUTINE HOT TUB MAINTENANCE



### REVIEW CHEMICAL HANDLING SAFETY HINTS

#### DAILY

- 1 Test water, and if necessary, add shock.
- 2 Ensure proper water level is maintained.

#### WEEKLY

- 1 Test pH and Alkalinity. Adjust accordingly
- 2 Top-up chemical dispenser
- 3 Add sequesterant (**stain and scale controller**)
- 4 Remove and spray cartridge filter with garden hose and re-install (**see section CARTRIDGE FILTER**)
- 5 Remove and clean out skimmer basket (**see section CLEANING THE SKIMMER BASKET**)
- 6 Add Shock / oxidizing agent
- 7 Inspect union connections for o-ring and gasket leaks - Tighten if loose.
- 8 Clean stainless steel components that are above the waterline as indicated on page 28.

#### MONTHLY

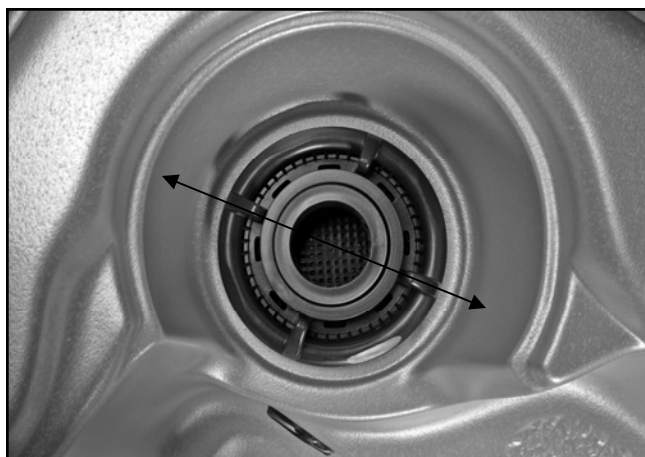
Soak your filter cartridge in a filter cartridge cleaning solution. Rinse thoroughly and, if possible, allow to dry before re-installing. HydroPool recommends purchasing a second filter so that while the first is cleaning, the other is clean and ready to install.

#### QUARTERLY

Drain hot tub at least once per quarter and clean the acrylic shell surface with a non-abrasive cleaner designed specifically for acrylic surfaces. **See sections CHANGING THE HOT TUB WATER and DRAINING YOUR HOT TUB**

#### CLEANING THE SKIMMER BASKET

- 1 Activate the **HOLD/STANDBY** mode
- 2 Remove the skimmer basket by rotating the top flange and lift up.
- 3 Remove debris from skimmer basket. (**Note: Avoid hitting the basket against objects to knock debris loose as this may damage the unit**)
- 4 Reinsert basket
- 5 Take the system out of **HOLD/STANDBY** mode, and as the pump begins to operate, monitor water flow over the skimmer basket to assure that it is free floating



### CARTRIDGE FILTER

The cartridge should be cleaned every two to four weeks, depending on the amount of use. Signs that the filter requires cleaning include:

- **Reduced jet power**
- **Hazy gray water**
- **Rattling noise in the pump or filter**
- **Heater not working**

### REMOVAL

- 1 Activate the **HOLD/STANDBY** mode.
- 2 Remove the filter cover and place to the side.
- 3 Rotate the locking flange counter clockwise to disengage.
- 4 Pull the filter lid upwards, and lift the cartridge element straight up and out of filter housing.

### CLEANING

- 5 With a garden hose and spray nozzle, hose off the cartridge element, ensuring to carefully separate every pleat.
- 6 To remove collected lotions, body oils, etc. soak the cartridge in warm water and a filter cleaning/emulsifying compound (**available at your HYDROPOOL retailer**).
- 7 A cleaning cylinder may be purchased from your HYDROPOOL Hot tub Retailer.
- 8 Rinse thoroughly and dry before replacing.
- 9 Hydropool recommends purchasing a spare filter cartridge so that you always have a clean substitute ready to rotate.
- 10 After the element has dried - if necessary, lightly brush between pleats with a fine paint-brush to remove remaining dirt particles.



**Do not use a wire brush or other device to clean cartridge element.**  
**Do not put in dishwasher or washing machine.**

### RE-INSTALLATION

- 11 Place the cartridge filter back into the filter housing.
- 12 Rotate the flange clockwise until it locks in place.

### CHANGING THE HOT TUB WATER

A hot tub should be drained every 8-12 weeks, depending on size and amount of use. If your hot tub is used daily or by a large number of bathers, the water should be drained more often. One method to determine the approximate length of time between water changes is to divide the water volume (in liters) of your hot tub by 13.5 and then divide by the average number of bathers each day.

$$\text{Formula } \left( \frac{\text{Volume of water in liters}}{13.5} \right) \div \left( \frac{\text{Average daily bathers}}{\text{Days between water changes}} \right) = \text{Days between water changes}$$

Volume of water in liters	Average daily bathers	Days between water changes
---------------------------------	-----------------------------	-------------------------------------

### EXAMPLE:

**1000 liters divided by 13.5 divided by 2 = 37 days.**

The hot tub water must be changed when the amount of dissolved solids becomes excessive, and is usually indicated by "gray" or dull looking water.

### WATER SOFTENERS

Never fill a hot tub with water from a water softener, as it could adversely effect the water chemistry, making it difficult to maintain proper water balance. If you live in an area with hard or soft water, give careful attention to your Calcium Hardness level. Topping Up with soft water is acceptable.



**EACH TIME BEFORE FILLING THE SPA**

- 1 Check to be sure that the drain shut off valve is closed (turn handle clockwise until it stops)
- 2 Check that the safety cap is securely in place.
- 3 If the drain valve is facing a wall, leave enough space between the valve and wall (6" minimum) in order to have enough space to connect a garden hose.

**TO DRAIN THE SPA**

**1 Turn Power Off**

Turn the power off at the spa consoles and deactivate disconnect switches at the GFCI plug or load center.

**2 Locate Spa Drain Valve**

The spa drain valve is located on the right side of the cabinet.

**3 Remove Drain Valve Safety Cap**

Remove the safety drain cap and store for use when refilling your spa. Attach a standard garden hose to the drain valve.

**4 Attach Hose & Drain**

With the garden hose attached rotate the end of the drain counterclockwise until it stops turning. Pull the drain towards you and it will begin to drain. To stop draining the tub simply reverse the process by pushing the drain in and rotating it clockwise until it will not turn anymore. Make sure you do not force the drain in so that it is properly aligned.



**CLEANING THE ACRYLIC SURFACE**

The acrylic surface can be cleaned and polished using a soft cloth and acrylic cleaner, available at your HydroPool Retailer.



- **Important: Do not use detergents - the remaining residues will adversely affect water chemistry, making it difficult to maintain proper water balance**
- **Do Not use abrasive cleaners - damage to the acrylic surface will occur.**

**SAFETY HARD COVER**

When a hot tub is uncovered, over 90% of heat is lost from the water surface. This evaporation also affects the chemical balance and could create humidity problems indoors. HYDROPOOL Safety Hard Covers are engineered for maximum thermal efficiency and appearance. They are hinged in the middle for easier handling, and the zip fastener allows the tapered foam inserts to be changed if damaged. The skirt of the safety hard cover overlaps the lip of the hot tub for a finished fit. The handles are placed so that even one person can easily carry a large cover. The locks, with one part fastened to the deck or skirt, prevent small children or animals from entering the hot tub. Do not drag the safety hard cover across the hot tub or decking. Fold the cover first, then lift by the handles. Standing on the hardcover could cause the tapered foam inserts to crack, which will lead to water absorption.

**NEVER LEAN OR STAND ON YOUR HARDCOVER.**

The cover should be cleaned at least twice a year with a vinyl moisturizer and protector.



## CABINET WING-LOCKS (CEDAR AND EVERLAST CABINETS ONLY)

The high quality wing-locks provided on your HydroPool Hot Tub cabinet not only firmly secure the equipment access panel, they also serve as convenient handles for removal and replacement. In order to maintain optimum performance and extended life, HydroPool recommends lubricating twice annually with a silicone based lubricant.

**RECOMMENDED PRODUCT:** Super-Lube silicone based lubricant (or equivalent) available at major retailers.



**CAUTION:** Do not use a petroleum based lubricant, as this will cause premature deterioration of the lock seal.



LUBRICATION POINT

## PROTECTING YOUR CABINET WOOD FINISH

Some HYDROPOOL hot tub cabinets are made from Western red cedar and are factory stained. Once stained, cedar weathers well, and with proper care will maintain its beauty for many years. In order to maintain the translucent finish and to enhance the wood grain beauty staining must be performed on a regular basis. These protective finishes stabilize the wood grain and build a durable, breathable water-repellent barrier between the wood surface and the elements. These products are available from your local building supply center..

## WINTERIZING YOUR HYDROPOOL HOT TUB

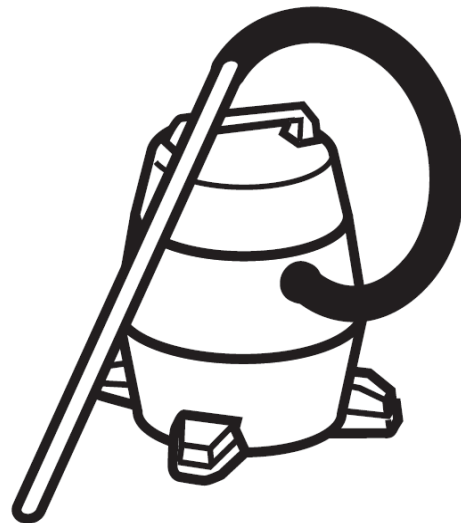
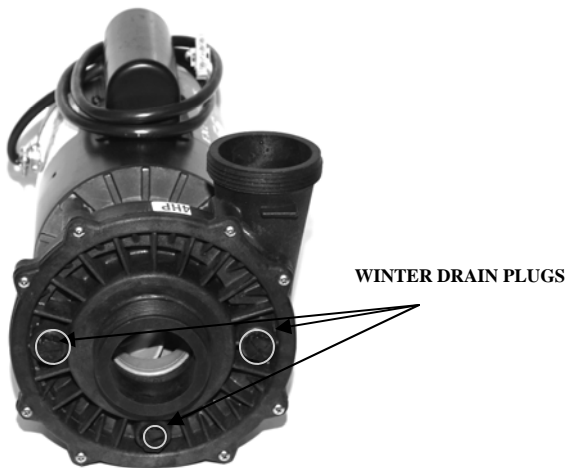
In the event that you do not wish to use your hot tub year-round, it is very important that you properly winterize to protect against damage from freezing. Your HYDROPOOL retailer can perform this service for a nominal fee. If you choose to winterize your hot tub yourself, please follow the directions outlined below:

- Drain the hot tub entirely see section - **DRAINING YOUR HOT TUB**
- Remove and clean the cartridge filter element see section - **CARTRIDGE FILTER**
- Using a wet/dry utility vacuum, remove remaining water from the jet openings, filter cartridge housing, and footwell.
- Either pour or use a turkey-baster where necessary to add potable biodegradable RV antifreeze to areas such as pump wet end, jet channels, filter housing, blower channels. **DO NOT USE AUTOMOTIVE ANTIFREEZE.**
  
- **Important:** mixing potable biodegradable RV antifreeze with water significantly reduces its ability to protect against freezing. Therefore, it is very important ALL water is removed from the hot tub plumbing before adding.
- Turn pump on for only a few seconds to circulate the antifreeze.
- Unthread and disconnect all unions in the support equipment area. Remove lowest winter drain plug on pump face plate. Repeat for all pumps, where applicable.

- Cover exposed plumbing connections with plastic bags and duct tape.
- Where practical, disconnect hot tub support equipment and store in a dry heated area.
- Install the safety hardcover, and cover the entire hot tub with a tarp to prevent premature weathering of the cabinet and the safety hard cover.
- Remove snow build up regularly to prevent damage to the safety hard cover.
- It is assumed that your HYDROPOOL hot tub has been properly installed on a reinforced concrete pad to eliminate lifting of the hot tub due to hydrostatic ground water pressure.



**If you are not 100% confident that your hot tub is properly winterized, please consult your authorized HYDROPOOL Hot Tub Retailer. Caution recommends that an authorized Hydropool Retailer winterize your hot tub in the initial year. Damage as a result of freezing is not covered by the warranty.**



## GENERAL TROUBLESHOOTING

### WHAT TO DO IN THE EVENT OF...

#### ...POWER FLUCTUATIONS

The power supply into your home is, for the most part, fairly consistent. However, when local power demand is high, there is a tendency for the voltage entering your home to drop (sometimes significantly) or fluctuate. This condition is referred to as a 'brown-out'. Although safeguards have been built into the system to protect against this condition, supply voltage may drop low enough, if even for a second, to cause the system to display a 'ghost' message. Should this occur or if the display shows partial messages, try resetting the system by turning power to the hot tub off, waiting a few minutes, then turning power on again. If this does not reset the system, contact your local HydroPool retailer or service organization.

#### ...POWER FAILURE OR SYSTEM FAULT DURING COLD WEATHER CONDITIONS

If your control system will not reset, (ie. GFCI trips) or if your pump will not circulate for any other reason, place a low wattage space heater under the cabinet in the equipment area. This will delay the risk of freezing while a service appointment is scheduled.



**Always follow the manufacturers instructions when locating and placing a portable electric space heater into service. Ensure that safe clearance to combustible surfaces is maintained. Do not leave unattended.**

### NOTES: