

HYDROPOOL self-cleaning hot tub owner's manual



HYDROPOOL
the self-cleaning hot tub



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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 tubing...



David Jackson



SAVE THESE INSTRUCTIONS

IMPORTANT USER SAFETY 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.

WARNINGS



- 1 Children should NOT use a hot tub without alert adult supervision.
- 2 Children should not enter a hot tub where water temperature exceeds body temperature (37°C / 98.6°F).
- 3 Prolonged immersion in water temperatures in excess of 38°C (100°F) may be injurious to your

health. We recommend establishing lower temperatures and shorter use periods for young children and/or those users potentially affected by hot temperatures. Always confirm water temperature with an accurate thermometer before entering your hot tub.

- 4 Do not allow children to submerge their head under water.
- 5 Do not use a hot tub unless all suction guards are installed to prevent body and hair entrapment. Do not sit in front of, or on top of the suction fittings or skimmer, as this will obstruct proper circulation and may result in personal injury.
- 6 Never operate the hot tub pump at high speed without having all suction and return lines open.
- 7 Always keep the hardcover installed and locked when the hot tub is not in use.
- 8 People using medications and/or having any adverse medical history should consult a physician before using a hot tub.
- 9 People with infectious diseases should not use a hot tub.
- 10 Exercise caution when entering or exiting a hot tub. Where practical, install a safety grab bar or handrail. Turn off the jets before entering the hot tub to improve visibility of the steps or flat entry area.
- 11 To avoid unconsciousness and possible drowning, do not use drugs or alcohol before or during the use of a hot tub.
- 12 Pregnant women should consult a physician before using a hot tub.
- 13 Do not use a hot tub immediately following strenuous exercise.
- 14 Do not permit or use electric appliances (such as a light, telephone, radio or television) within 1.5 m (5 ft) of this hot tub, unless such appliances are rated at 12VDC or less.
- 15 Test the GFCI (Ground Fault Circuit Interrupter) monthly.
- 16 Post emergency phone numbers for Police, Fire Dept., and Ambulance at the nearest phone.
- 17 Maintain water chemistry/balance in accordance with manufacturer's instruction

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 (101 -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/m² (250 lbs./ft.²). 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 Level your hot tub using wood shims where necessary, ensuring that the tapered end extends at least 61 cm (24 in.) under the unit.
- 5 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 weather protected.
- c Always provide adequate access for servicing the support equipment.
- d Decking should 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

- When the hot tub is to be installed in a small room (under 150 ft²/14 m²), we recommend that large units be fully or partially submerged in-floor so that it does not dominate the room. This will also provide greater overhead clearance for entry and exit to and from the hot tub
- 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. Where this is not practical, the use of indoor/outdoor carpeting or a tile floor and the opening of a window while the hot tub cover is removed should be sufficient. You should not have concerns regarding humidity. When the hardcover is installed, no humidity will escape. During use, the small amount of humidity released into the room can be removed with the use of a dehumidifier
- 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
- If possible, locate the hot tub where you will enjoy some privacy, out of the site of neighbours. If this is not possible, a partial privacy or wind partition, or proper placement of the optional Hydropool cover lifter should provide adequate privacy
- 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.

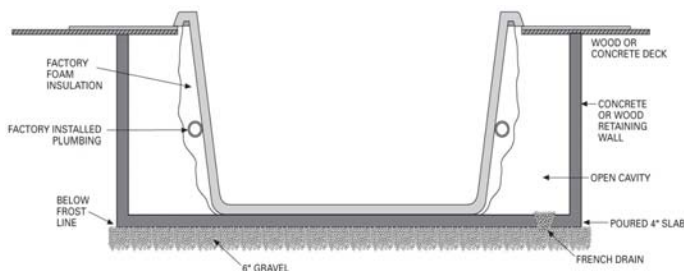
For best results, we recommend the installation of a level concrete pad:

- 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.

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

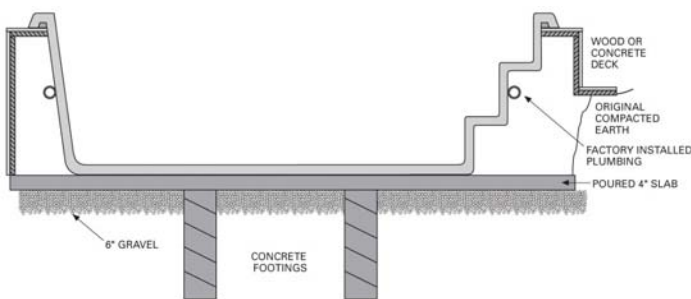
- Install protective waterproof conduit to house light, or topside control cables that will be buried

- Access for future service must be considered at the time of design and installation. Difficult access can result in supplemental labor charges not covered by the factory warranty. Consider easily removable deck materials.

- Make sure the hot tub or swim spa is tested during 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.

OVERALL SUPPORT

Your Hydro-pool hot tub is equipped with a factory installed load support substructure, which distributes the weight of the water over the entire foot area of the hot tub. The cabinet, either factory installed or customized on-site, should be decorative only, and not relied on for overall support. Never suspend a hot tub from a deck or floor by the outer acrylic edge, as this will lead to product damage and/or serious personal injury.



LEVELING YOUR HYDROPOOL HOT TUB

After the hot tub is properly positioned on the support base, the entire unit should be checked with a level and shimmed as necessary. Should you find that the support base is sloped or otherwise uneven, level your hot tub using **TAPERED** wood shims where necessary, ensuring that the tapered end extends at least 61 cm (24 in.) under the unit.

This will insure contact with the support substructure to appropriately distribute the weight of the unit. Do not just shim under the cabinet base outside edge, as this will cause structural stress on the unit, potentially causing unwarrantable damage to the hot tub structure and /or shell.

EQUIPMENT ACCESSIBILITY AND PROTECTION

The equipment must be located in an area where it will remain dry and will not be exposed to rain, snow or ground water. The standard HydroPool hot tub has the equipment installed inside the protective cedar cabinet.

- When your hot tub is to be installed above-ground, the cabinet is designed for both protection and accessibility
- When your hot tub is to be installed fully or partially in the ground, if you are relocating the equipment remotely from the hot tub, or if you have ordered a hot tub without

a cabinet: it is necessary that the equipment is installed in an area that is dry, protected from the elements, has proper ventilation and is easily accessible for service

- Always ensure that the equipment is mounted on a raised base or platform to prevent potential water damage to the motor, equipment or controls
- Ensure that access to the equipment and the working area around the equipment is large enough to accommodate a service person

REMOTE EQUIPMENT PLACEMENT

Whenever possible, install the pump(s) and control with heater below water level to ensure easy priming and maximize performance. Where above-grade equipment location is necessary, please ensure that your hot tub is equipped with the Remote Above-Grade Equipment Package.

- The equipment should be located as close to the hot tub as possible to maximize jet performance.
- Where you have ordered your hot tub with optional remote equipment, ensure that the equipment is not located more than 3 m. (10 ft.) from the hot tub.
- Use only 2 in. flex-pipe or larger for the pipe runs from the equipment to the hot tub, with minimal use of elbows or other pipe restrictions.
- Install protective waterproof conduit to house applicable cords or line extensions such as the sensor and top-side control cables, light wires or ozone tubing.
- In climates where freeze / thaw occurs we recommend that remote plumbing lines be buried below the frost line and that pipe insulation is applied over all pipes that run from the hot tub to the remote equipment to help maintain energy efficiency.

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.

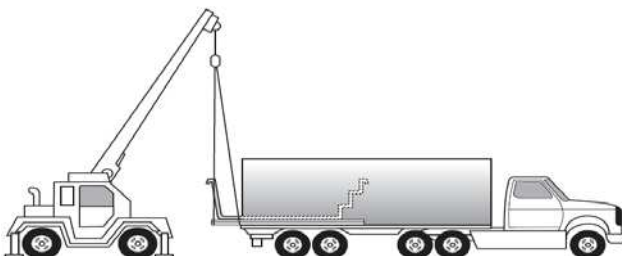
Most HydroPool models require a clearance width of at least 100 cm. (39 in.) to allow movement of the unit on its side through alley-ways, fence openings, etc. Where this is not possible, the use of a crane to lift the hot tub from the truck or trailer over the house to the patio or yard is often a simple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

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.

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

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 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.

NORTH AMERICA

| | |
|---|-----|
| Gold Series | 40A |
| Platinum Series/Luxury Edition | 50A |
| Luxury 60 Jet and Luxury 80 Jet Series | 60A |

EUROPE

| | |
|---|-----|
| Gold Series/Platinum Series/Luxury Edition | 20A |
| Luxury 60 Jet and Luxury 80 Jet Series | 40A |

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 or 60A GFCI is # 6/3 c/w ground (also referred to as # 6 gauge / 4 conductor).

EUROPE

- The minimum wire size for European system is 2.5 mm copper wire.

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.

G.F.C.I./R.C.D. APPLICATION GUIDE FOR HYDROPOOL SELF CLEAN SERIES

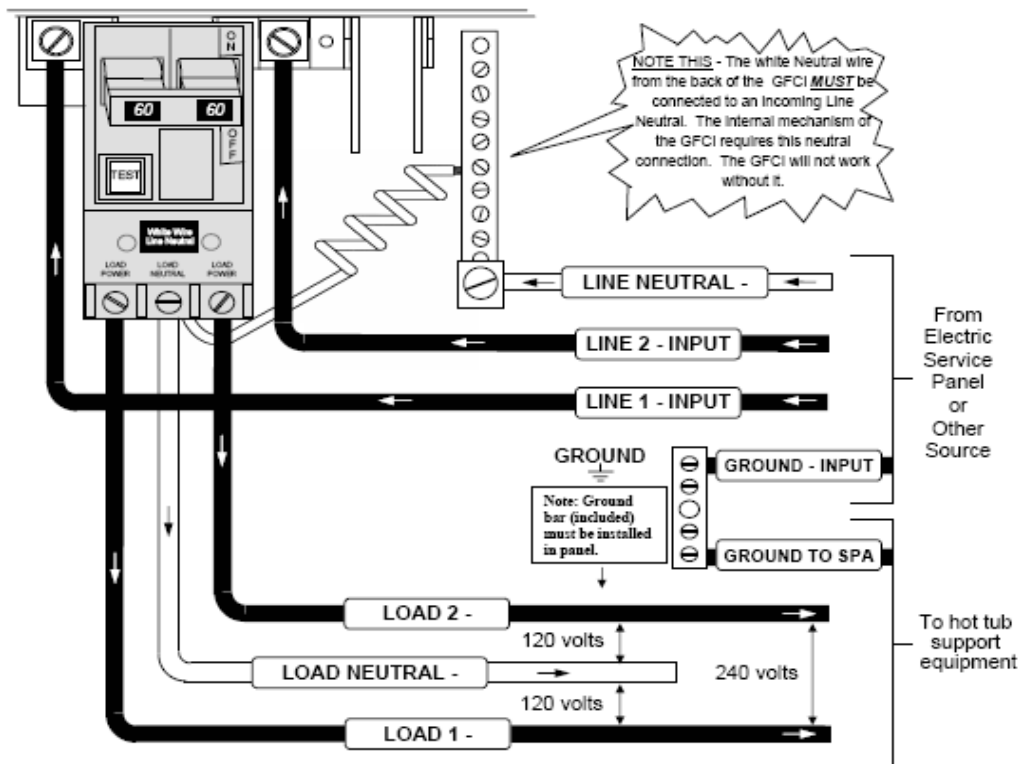
NORTH AMERICA – GFCI INSTALLATION



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.

SIEMENS - 240 VOLT TYPICAL

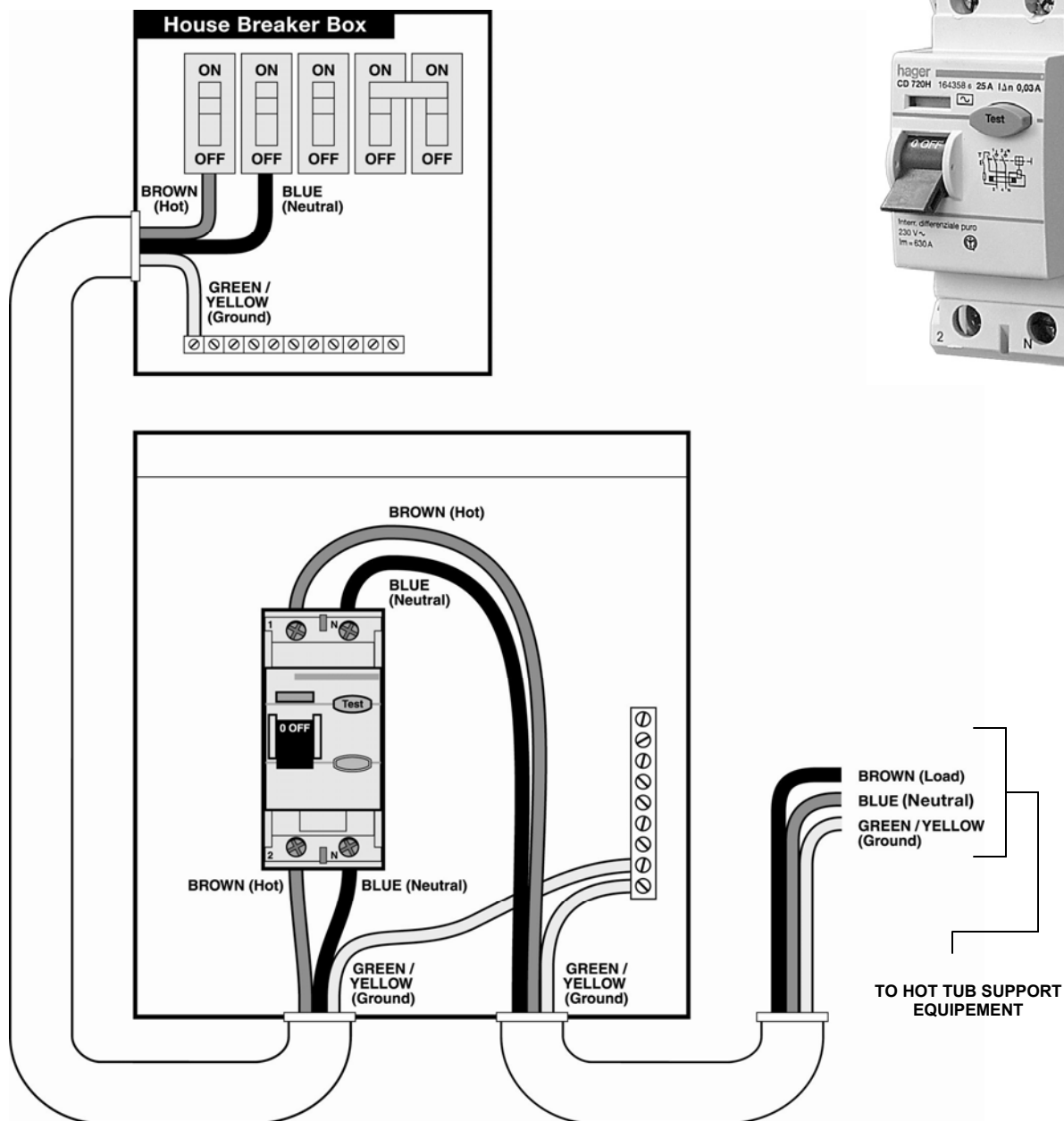


EUROPE – R.C.D. INSTALLATION - TYPICAL



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

TUBULAR PILLOWS

The tubular pillows are a friction fit. Simply compress the ends slightly, and slide into the semi-circular recess above the seat or lounger, with the HydroPool logo facing out.



CORNER WRAP PILLOWS

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



Although the pillows are designed to remain in-place in the hot tub, to extend the life of the pillows, remove after each use.

WATERFALL PILLOWS

If you received the optional waterfall package, remove the blade from the waterfall receiver fitting in the hot tub (already installed at the factory). Insert the waterfall blade through the front of the special waterfall pillow. The front flange of the waterfall blade will be recessed into the front of the pillow. If it is not recessed, the blade needs to be removed and re-inserted through the opposite side of the pillow. Push the pillow into the semi-circular recess, ensuring that the portion of the blade protruding out of the back of the pillow inserts firmly into the waterfall receiver fitting.



YOUR DREAM SCENTS AROMATHERAPY SYSTEM

Operational Instructions:

This exclusive aromatherapy system is independent from the blower 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 HydroPool 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 counterclockwise.



FILTER/ICE-BUCKET LIDS

The filter and ice-bucket covers provide that finishing touch to your Hydropool hot tub. As the covers are identical to each other, simply place over either opening for a finished appearance.



SAFETY HARDCOVER LOCKS

The ASTM 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

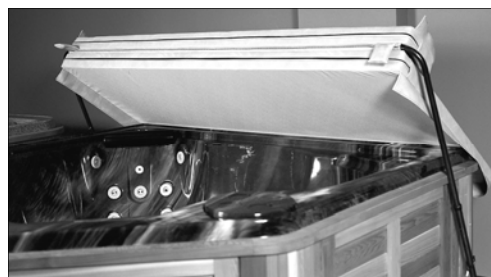


Always ensure the safety hard cover is in place and locked whenever the hot tub is not being used.

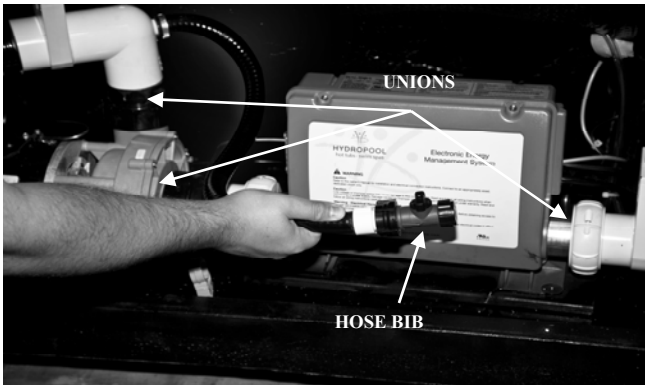


OPTIONAL COVER REMOVER

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.



FILLING, CHECKING AND STARTING YOUR HOT TUB



PROPER WATER LEVEL

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.
 - Pull up the handles on the intake and return gate valves (handles are pulled up when valves are open and pushed down when valves are closed).
 - 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 as indicated by the “MIN” and “MAX” marks on the weir door 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

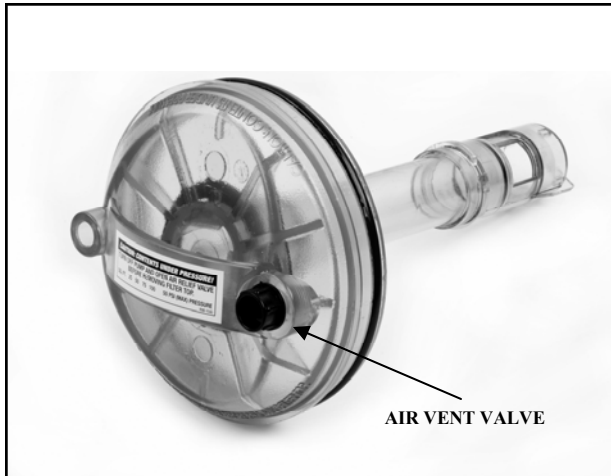
- On some systems a message will appear on the display indicating that the system is in **PUMP PRIMING MODE**. This mode will last for 4 to 5 minutes before automatically entering the normal operation mode. **See complete details for your spa in section HYDROPOOL CONTROL SYSTEMS**

• When the hot tub pump is located below water level, the water should start circulating immediately. If the motor works but 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’). To prime (inset 2), open the hose-bib to allow trapped air to escape. Close as soon as the water flow from the jets becomes regular. If the pumps have not 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 again 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 pump(s) does 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).

- **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.

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

RELEASING AIR TRAPPED IN FILTER...



- When the pump starts circulating, it will be necessary to release trapped air in the filter. Carefully loosen the air vent valve counter-clockwise until there is the hissing sound of air escaping. Once there is a steady stream of water, close the vent valve, ensuring that the o-ring does not become pinched.

- Turn the Hydrotherapy pump(s) on and re-check for leaks. The control system will automatically return the pump(s) off 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 MAINTENANCE

- The hot tub will require 8-10 hours to reach the desired temperature.

- Keep insulated safety hard cover on the hot tub, and the air controls closed during the entire heat up process.

HYDROPOOL SELF CLEAN SERIES CONTROL SYSTEMS
NORTH AMERICA / EUROPE

HYDROPOOL SELF CLEAN – IN.XE SPA PACK 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, the system will do a lamp test where all of the segments and LED's are lighting up. Then the system will show the software part number "85", the software revision "r3" and then the low level selection "L1".

After the initial software indicators are shown, the display will flash between temperature (--- °F) and time (12:00 pm). This display is indicating that the system is in **PUMP PRIMING MODE**. In this mode pump 2 (if installed) will run for one minute and then it will turn off and the system will activate pump 1 to run for one minute before automatically exiting and entering the normal operation mode.

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.



TEMPERATURE CONTROL
FUNCTIONALITY AND ADJUSTMENT



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 show (--- °F) and time (12:00 pm).

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. After 2 minutes the display will show the current measured water temperature

Press the keypad to increase the temperature to the desired setting. The heat indicator light on the topside panel will turn on indicating that the display shows the desired temperature, NOT the current water temperature.

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 5 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.

The temperature can be adjusted from 15°C (59°F) to 40°C (104°F) in 0.5°C (1°F) increments.

Heater Function

In a regulation cycle, the system first generates water flow through the heater housing and the plumbing, in order to ensure accurate water temperature readings as well as avoiding heater activation in dry conditions. The system verifies periodically that all parameters are within the normal range. If the readings received from the system are not valid, blanks (---) will be displayed until normal readings have been successfully found. After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at the set point. The heater indicator lights up when the heater is on, It flashes when there is a request for more heat but the heater has not started yet.

PUMP / JETS FUNCTION



Press this pad to activate the pump

- 1st press** – turns on high speed
- 2nd press** – turns off

Pump 1 and 2 are single speed pumps that run on high speed only for hydrotherapy. A built in timer automatically turns the pumps off after 15 minutes unless it has been manually deactivated. The pump indicator icons turn on when each pump is activated.

PUMP AUTOMATIC TIME-OUT

High speed – 15 minutes

FILTER CYCLES

To program the filter cycles, you must enter the duration of the cycle and frequency of the cycle. During a filter cycle the pumps run for one minute to purge the plumbing and then the filtration pump runs for the remaining duration of the filter cycle.



PROGRAMMING THE FILTER CYCLE

In order to program the filter cycle you must press and hold the FILTER key for 5 seconds. The display will show the time of day with the hours flashing. A press of the FILTER key will then flash the minutes. A press of the FILTER key will display FS (filter start time). Use the temperature UP and DN keys to select the start time. A press of the FILTER key will display FD (filter duration). Use the temperature UP and DN keys to select the duration (0-24 hrs). A press of the FILTER key will display FF (filter frequency). Use the temperature UP and DN keys to set the frequency (1-2). A press of the FILTER key will display EP (economy mode programming). Use the temperature UP and DN keys to turn off or on (0-1). A press of the FILTER key will display ES (economy start). Use the temperature UP and DN keys to set the start time. A press of the FILTER key will display ED (economy duration). A press of the temperature UP and DN keys will select the duration (1-24 hrs). A press of the FILTER key will display a flashing F. Use the temperature UP and DN keys to toggle between F and C. Press the FILTER key to exit the programming.

STANDBY / DRAIN ASSIST MODE

A long press of 5 seconds will enable the "STANDBY MODE". This mode allows you to stop all outputs including all automatic functions such as a filter cycle, heating requests and smart winter mode purging for 30 minutes to perform quick spa maintenance. When the "STANDBY MODE" is activated, the display will toggle between the "OFF" message, the "CLOCK" and the water temperature.



Press either Pump 1 or the Pump 2 key to restart the system before the expiration of the 30 minute delay. The spa light will flash a few seconds before the end of the 30 minutes to warn you the system is about to resume its normal operation and the display will then show "ON" for 3 seconds.

Once the "OFF" mode is enabled, a quick press of the Pump 1 key will activate the "DRAIN MODE" and the filtration pump will turn on and run for 30 minutes. If your tub has not been completely drained down you can simply press the Pump 1 button again to continue the cycle. A press of any key will disable the "OFF" and "DRAIN" mode and resume its normal operation.

PURGE CYCLES

The purge cycles are programmed to begin at the start of each filter cycle. Pump 2 activates for 1 minute, shuts off and then Pump 1 activates for 1 minute and then shuts off.

OZONATOR OPTIONAL

The ozonator operates during **FILTER CYCLES** only and remains off for 30 minutes after usage.

SMART WINTER MODE



Smart Winter Mode protects your system from the cold by turning the pumps on several times a day to prevent water from freezing in the pipes. The Smart Winter Mode indicator turns on when in this mode of operation.

If the temperature drops 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 5°C (41°F) before returning to normal system mode.

COOL DOWN

After heating the spa water to the desired set point, the heater is turned off, but the filtration pump remains on for a certain amount of time to ensure adequate cooling of the heating element in order to prolong the useful life of the heater. The heater icon flashes during this time.



SETTING THE TIME OF DAY

In order to set the time of day you must press and hold the FILTER key for 5 seconds. The display will show the time of day with the hours flashing. Use the temperature keys to change the hours. A press of the FILTER key will then flash the minutes. Once again use the temperature keys to change the minutes. A final press of the FILTER key will program the time.

HYDROPOOL SELF CLEAN SERIES CONTROL SYSTEMS
NORTH AMERICA / EUROPE

HYDROPOOL SELF CLEAN – IN.XM SPA PACK 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, the system will do a lamp test where all of the segments and LED's are lighting up.

After the initial software indicators are shown, the display will flash between temperature (--- °F) and time (12:00 pm). This display is indicating that the system is in **PUMP PRIMING MODE**. In this mode pump 2 (if installed) will run for one minute and then it will turn off and the system will activate pump 1 to run for one minute before automatically exiting and entering the normal operation mode.

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.



**TEMPERATURE CONTROL
FUNCTIONALITY AND ADJUSTMENT**



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 show (--- °F) and time (12:00 pm).

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. After 2 minutes the display will show the current measured water temperature

Press the keypad to increase the temperature to the desired setting. The heat indicator light on the topside panel will turn on indicating that the display shows the desired temperature, NOT the current water temperature.

To Check/Change the Set Temperature

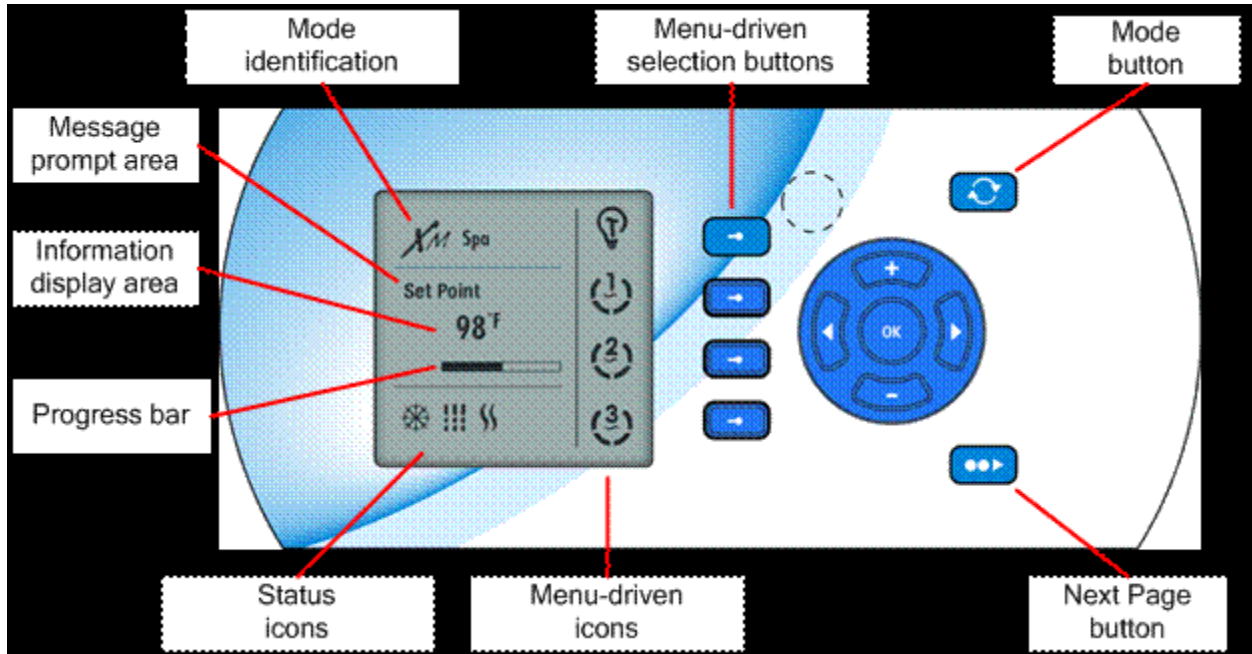
The last measured temperature is constantly displayed on the topside panel. When this pad is pressed once any time during normal operation, the display will show the set temperature for 5 seconds. Press this pad a second time to increase or decrease the set temperature. To change the direction of the temperature settings (ie. lower vs. raise the temperature), allow the display to revert back to the current water temperature then press the pad again. The temperature can be adjusted from 15°C (59°F) to 40°C (104°F) in 0.5°C (1°F) increments.

Heater Function

In a regulation cycle, the system first generates water flow through the heater housing and the plumbing, in order to ensure accurate water temperature readings as well as avoiding heater activation in dry conditions. The system verifies periodically that all parameters are within the normal range. If the readings received from the system are not valid, blanks (---) will be displayed until normal readings have been successfully found. After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at the set point. The heater indicator lights up when the heater is on, It flashes when there is a request for more heat but the heater has not started yet.

IN.K600 Electronic Control

The IN.K600 Electronic Control panel uses a paged-style menu system to operate and program your spa. Basic button functions are described next.



Press the **Mode** button to display the operating modes (*Spa*, *Options*, *Audio*, and *Smart/Winter*). Pressing the function button (described below) next to a mode selects that mode. Pressing Mode in a menu exits the menu without saving the values.



Press the corresponding **function** button next to an icon to select that mode or operate that device.







Press **Next Page** for more pages.

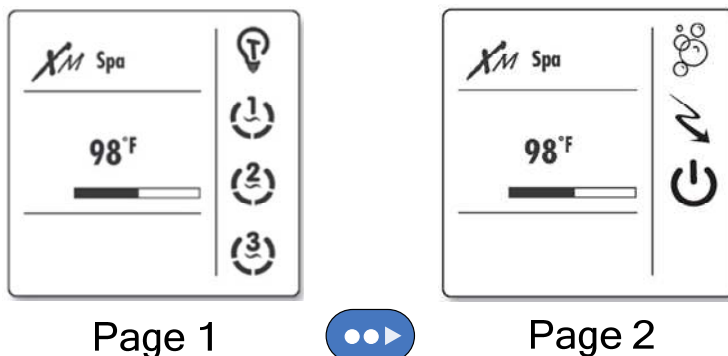



Press **OK** to toggle between the time or water temperature.
 Press the Increase/Decrease (+/-) buttons to raise or lower values in a menu.
 Press the Forward/Backward (</>) buttons to move between selections.

The system normally displays the current water temperature. Press the Increase/Decrease (+/-) buttons to set the desired (set) water temperature.


SPA MODE

Spa mode allows you to operate the basic devices of your spa / hot tub plus access Economy feature. To access Spa mode, first press  to access the mode selection menu and then select the Spa mode with . Press  next to the feature or device you wish to operate on that page. The corresponding display icon animates indicating its status. Press  to go to the next page.




Press  to turn the LED light on/off. Press again to cycle through the many colors. Once a desired color is found, press again to stay on this color. A built-in timer turns the light off after 2 hours, unless you turn it off first.




Press  to turn pump 1 or 3 (if equipped) on high speed, pressing it a second time turns it off. A built-in timer turns this pump off after 20 minutes, unless you turn it off first.




Press  to turn pump 2 (if equipped) on high speed, pressing it a second time turns it off. A built-in timer turns this pump off after 20 minutes, unless you turn it off first.





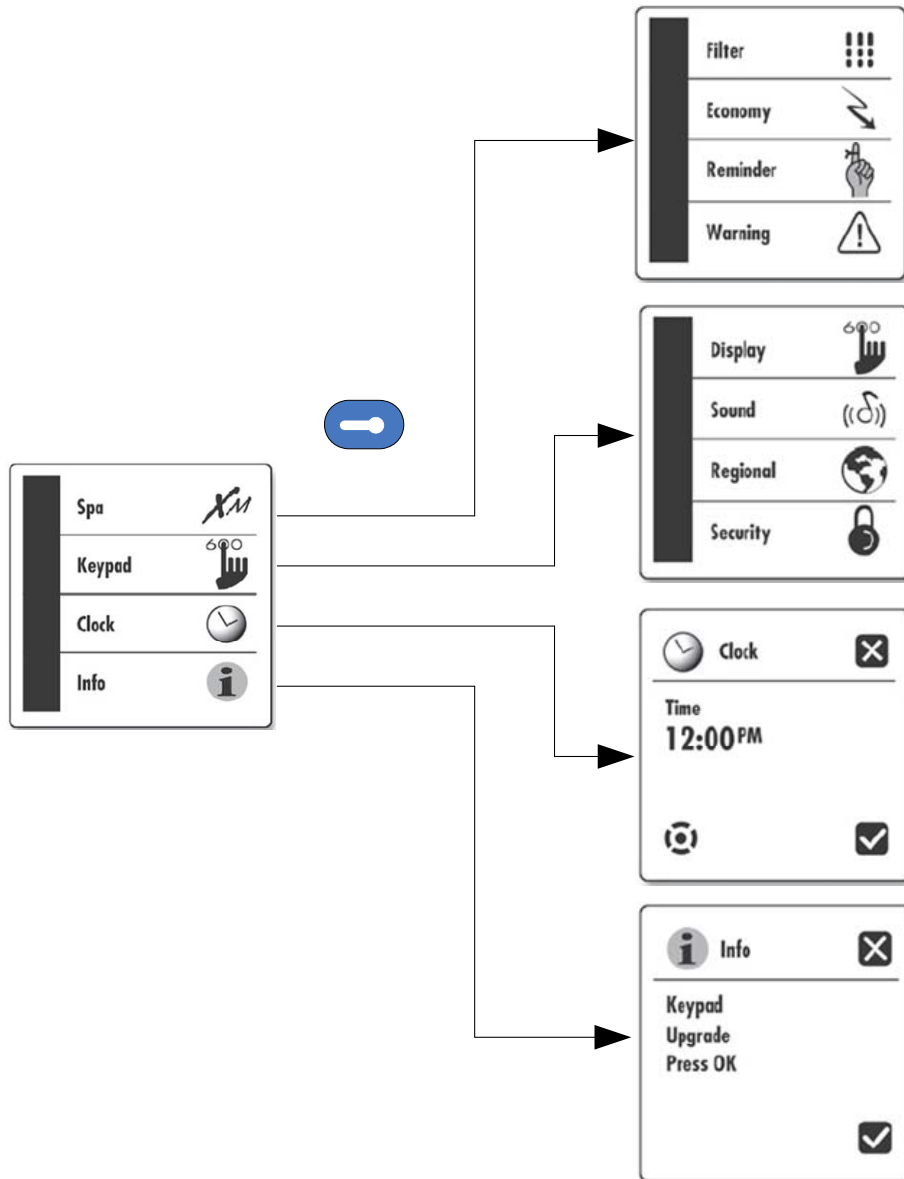
Press  to turn Economy mode on/off. Typically used when you plan to be away from your spa, Economy mode allows you to set back your spa's water temperature by 10°F to help you lower your operating costs.



Press  to "pause" the current pump settings (**Standby mode**). Pressing this button again (or when a filter purge start time is reached) returns your spa / hot tub to normal operation.


OPTIONS MODE

In Options mode, the system shows you which option you wish to program or alter (Spa, Keypad, or Clock). The Info option allows you to review various information about your spa / hot tub. To access Options mode, first press  to access the mode selection menu and then select the Options mode with . The following submenus are accessible from the Options mode choices (Spa, Keypad, Clock, and Info).



SPA SUBMENUS








This submenu allows you to personalize operating settings of your spa / hot tub – such as the total filtration cycle, economy times, and a maintenance reminder – and to display any warning messages. When your spa / hot tub is in a filter cycle, the icon  appears on the topside control panel.

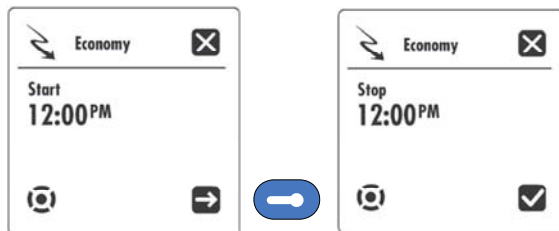


Filter Cycle Screens

Your spa / hot tub can be programmed to specify how long it filters the water each day (filter cycle). Four pages of menus control: when the filter cycle turns on/off (start time), how long it runs each time it turns on (duration), how many times per day cycles should run (frequency) (default is 12:00 AM, 2 hours, 2 times/day).

Note: When your spa / hot tub starts a filter cycle, the pumps turn on for about one minute to purge the plumbing lines.

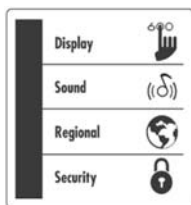
- Start** Press +/- to set the starting hour of the Filter Cycle, press > to select minutes, and then press +/- to set the starting minute. Press   to go to the next screen.
- Duration** Press +/- to set the duration of each Filter Cycle (i.e., whenever a cycle runs, how long should it run). Press  to go to the next screen.
- Frequency** Press +/- to set the number of times each day the Filter Cycle runs (2 recommended). Press   to go to the next screen.



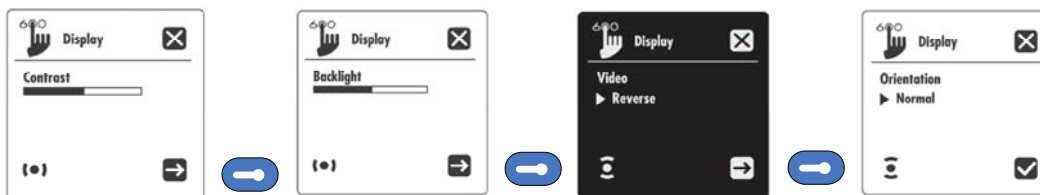
Economy Screens

Economy mode allows you to automatically set back your spa / hot tub water temperature by 10°F every day for a certain period of time to help you lower operating costs. Remember to select Economy Mode times that differ from your normal bathing times.

- Start** Press +/- to set the starting hour of economy mode. Press > to select minutes. Press +/- to set the starting minute of economy mode. Press to go to the next screen.
- Stop** Press +/- to set the ending hour of economy mode. Press > to select minutes and +/- to set the ending minute of economy mode. Press to save the settings.



This submenu allows you to personalize operating settings of your spa / hot tub display.



Screen Displays

These settings allow you to adjust the properties of the display.

- Contrast** Press +/- to set amount of contrast on the display. Press to go to the next screen.
- Backlight** Press +/- to set the intensity of the backlight (for night viewing). Press to go to the next screen.
- Video** Press +/- to set a normal or inverse video display. Press to go to the next screen.
- Orientation** Press +/- to set a normal or inverted display. Press to save the settings.



KEYPAD SUBMENUS




Sound Screens

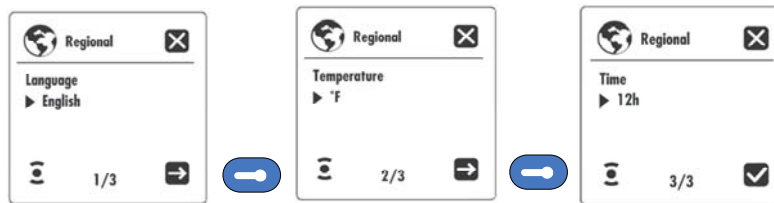
These settings control how the audible beep functions. You can assign a beep to each keypad press and an audible alarm for warnings.

Keypad

Press +/- to turn the keypad audible beep on/off. Press   to go to the next screen.

Alarm

Press +/- to turn the audible alarm on/off. Press  to save the settings.





Regional Screens

These settings control how the language, temperature units, and time format.


Language

Press +/- to select your language. Press   to go to the next screen.

Temperature

Press +/- to select a temperature reading in degrees F/C. Press   to go to the next screen.

Time

Press +/- to select a 12/24 hour clock display. Press  to save the settings.



This submenu allows you to personalize the keypad security of your spa / hot tub to prevent unauthorized changes to the settings. When the keypad is locked the lock icon is displayed.

A *Partial* keypad lock allows access to basic spa / hot tub functions (pumps, light, etc.) but blocks access to the temperature set point and Programming mode.

A *Full* keypad lock is a total keypad lockout.



Press +/- to set a partial or full keypad lock. Press   to go to the next screen. Press   to save the settings.

Note: To unlock the partial keypad, select and hold Options menu key for 5 seconds.

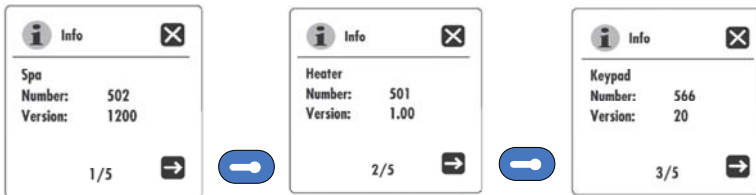
Note: To unlock the full keypad, select and hold Light menu key for 5 seconds.

CLOCK SUBMENUS



This submenu allows you to set the time of the clock. Press +/- to set the hours. Press > to access minutes. Press +/- to set the minutes. Press   to save the settings.

INFORMATION SUBMENUS





Information Submenus Pages

These sub-menus allow you to view spa / hot tub equipment data such as the electronic controller, heater, and keypad software version. You can also reset all programmed settings back to default factory values, and finally to upgrade keypad software.






Keypad Default

This submenu allows you to reset the keypad setting to the factory default.

Press **OK** button to reset the keypad to the factory defaults. Press   to go to the next screen.

Keypad Upgrade

This submenu allows service personnel to perform a firmware upgrade on the keypad. This action should be performed by authorized service personnel only.

Press the **X**  button to abort the upgrade. Press the **OK** button to start the upgrade. Press   to save the settings.

SMART WINTER MODE



If the system (sensor located inside controller) detects ambient conditions below 42°F, it automatically enters the Smart Winter Mode for a period of 24 hours. In this mode, the pumps runs for one minute, several times per day to prevent water from freezing in the pipes.

VARIABLE AIR THERAPY SYSTEM CONTROL FUNCTIONS:

NOTE: For IN.XE spa pack the blower has dedicated power already supplied to the keypad and you only need to follow step 1 to power up the unit. For IN.XM spa pack models you will need to press the button on the IN.K600 main control to activate system first and then follow the sequence below.

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.

All HydroPool hot tubs are shipped from the factory with the jets in the open position.

JET AIR FLOW ADJUSTMENT

Your HydroPool hot tub features adjustable airflow on specific hydrotherapy jets. To reduce the flow: turn the handle on the air control clockwise. When it hits the stop, the air is closed, and airflow will be restricted. To increase the flow: turn the handle on the air control counter-clockwise. 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 & CONTROLS:

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

CLEANING CASCADING WATERFALL 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 with Needle-nose pliers or tweezers - pull out and clean, then rinse.
- 4 Reassemble in reverse order.

ACCUPRESSURE SEQUENCE MESSAGE FILTER

This filter must be cleaned at each drain and refill of your hot tub to ensure proper functionality of the Accupressure Sequence Massage. It is located behind the door in the equipment area. To access the filter screen turn large canister section of the assembly counter-clockwise till the apparatus separates revealing screen filter. Run filter under tap to clean out any debris and reassemble in reverse order.



JET INSERT REMOVAL & REPLACEMENT

POLY/MINI STORM DIRECTIONAL & TWIN ROTO POWER STORM MASSAGE & TWIN ROTO

TO REMOVE:

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

TO RE-INSTALL:

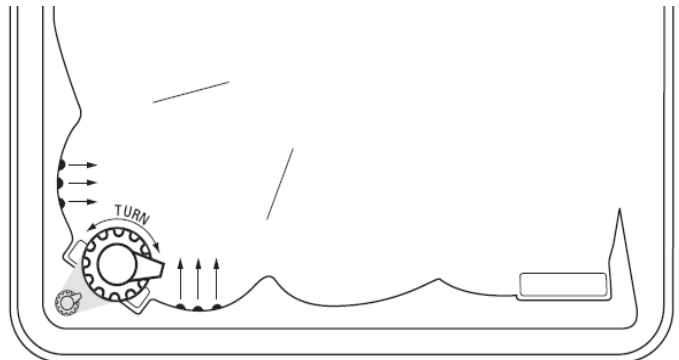
- Push the jet into the socket until it snaps into place, ensuring the square pin on the back of the jet lines-up with the groove in the socket flange.



DIVERTER VALVE

When your HYDROPOOL hot tub is equipped with a diverter valve, it allows you to direct the flow of the water so that it increases the power of the jets on the **CAPTAINS CHAIR** or on the **LOUNGER**, or a combination of the two. Simply turn the valve left or right.

Always: return the valve handle to the middle position before exiting the hot tub to ensure that there is air and water flow to the ozone jet and ice-bucket/filter niche drains for proper performance.



WATERFALL CONTROL OPTION

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



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 improperly maintained pH or Total Alkalinity is not covered under warranty.



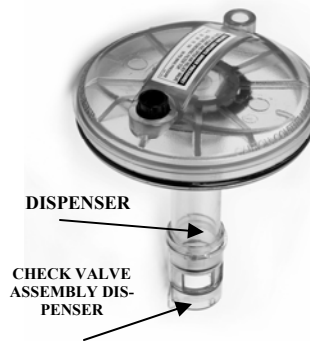
WARNING

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.
- 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 in the lid 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") diameter tube extending from the bottom of the lid.

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 allows water to circulate for 3 or 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 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 | 2.0 | 6.0 - 10.0 | 10.0 |
| CHEMICAL | | | |
| PH | 7.2 | 7.4 - 7.6 | 7.8 |
| Total Alkalinity (TA) | 80 | 80 - 120 | 180 |
| Total Dissolved Solids (TDS) | 300 | 1000 -2000 | 3000 |
| Calcium Hardness | 150 | 200 -400 | 500 -1000 |

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

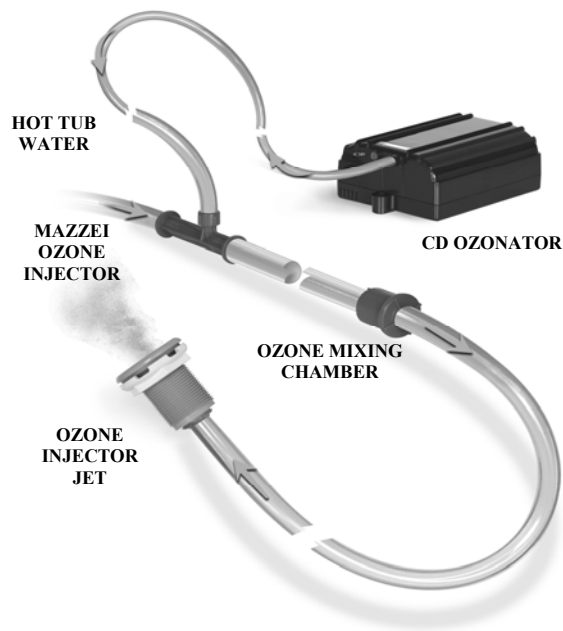
WATER BALANCE TROUBLESHOOTING

| 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. |
| 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 |
| 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. Prevent by running an extra rinse cycle on washing machine or re-rinse well by hand. |
| | Laundry detergent residual in swimwear | 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* |
| | excess organic contaminants | 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 calciumchloride* |
| Corrosion/Etching | low Calcium Hardness and/or low Total Alkalinity | Test calcium hardness and if necessary increase with calcium chloride* |
| 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 Hydروpool retailer for specific product recommendation

CORONA DISCHARGE OZONE TECHNOLOGY

All Hydropool hot tubs are factory prepared to accommodate ozonators. The Hydropool Corona Discharge Ozonator is regarded as the most technologically advanced system on the market, allowing longer contact time with the hot tub water resulting in reduced chemical consumption and clearer, cleaner water. Hydropool's unique ozone injection system both maximizes the dispersion of the ozone gas and decreases the bubble size resulting in longer contact with the water and increased water quality and purity. The ozone/water mixture is sent down a series of tubes where the ozone is "broken down" into even smaller bubbles before being remixed with the water reducing the "off-gassing" commonly found with other ozone systems.



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 controls as indicated on page 28.

MONTHLY

- 1 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

- 1 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 **STANDBY/DRAIN ASSIST** mode
- 2 Remove the skimmer basket by pulling the weir door forward, and pulling the basket up and towards the front
- 3 Remove debris from 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 **STANDBY/DRAIN ASSIST** mode, and as the pump begins to operate, monitor water flow over the weir door 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 **STANDBY/DRAIN ASSIST** mode.
- 2 Remove the filter cover and open the small, black air vent / bleeder valve on the top of the filter lid.
- 3 Lift the Gray lock tab to disengage and turn the locking ring counter clockwise.
- 4 Pull the filter lid upwards, and lift the cartridge element straight up and out of filter housing.

CLEANING

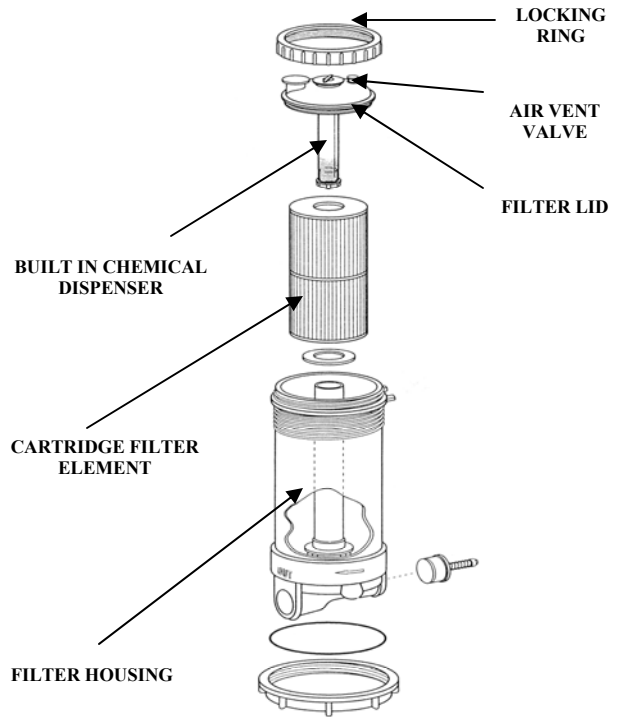
- 5 With a garden hose and spray nozzle, hose off the cartridge element, ensuring to carefully separate every pleat.
- 6 To remove collected lotions, body oils, etc. soak the cartridge in warm water and a filter cleaning/emulsifying compound (**available at your HYDROPOOL retailer**).
- 7 A cleaning 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 Replace the filter housing lid, pushing it down to seat, ensuring that the lid o-ring does not become twisted.
- 13 HydroPool recommends that the lid o-ring be lubricated with a non-petroleum based lubricant (ie. Silicone gel) when it becomes dry. This will help to prevent twisting and pinching as the lid is installed, and significantly increase longevity of the o-ring.
- 14 Install the filter lock-ring, turning clockwise until the lock tab snaps into place.
- 15 Close the air vent/bleeder valve.
- 16 Take the system out of **STANDBY/DRAIN ASSIST** mode.
- 17 When the pump starts circulating on low speed, it will be necessary to release trapped air in the filter. Carefully loosen the air vent/bleeder valve counter-clockwise until there is the hissing sound of air escaping. Once there is a steady stream of water, close the vent valve, ensuring that the o-ring does not become pinched.



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 hugs the lip of the hot tub for a tight 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.

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.

Formula

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

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.

DRAINING YOUR HOT TUB HYDROPOOL EXCLUSIVE QUICK-DRAIN™ & FILL REFER TO DIAGRAM

OVERVIEW

- Requires the use of 2 garden hoses - drain hose and fill hose
- While first garden hose is draining old water from hot tub...
- ...second hose is used to wash down interior surface of the hot tub and for fresh water fill.

REFER TO FIGURE 1 & FIGURE 2

- 1 Locate nearest drain facility (**Check your local bylaws**).
- 2 Put the hot tub control system into **STANDBY/DRAIN ASSIST*** mode. The system will automatically exit Standby Mode after 1 hour and resume normal operating functions.
- 3 Remove the skimmer basket so that the hole beneath it is accessible, and insert the #10 rubber expansion plug provided.
- 4 Attach garden hose to hose bib located on plumbing line beside the hot tub control system.
- 5 Run garden hose to drain location.
- 6 Open hose bib.
- 7 Close pump1 return gate valve next to the hose bib (this directs the water out the drain hose).
- 8 Activate the low speed pump.
- 9 Monitor the hot tub while it drains.
- 10 Use the second garden hose to wash down interior surface as the hot tub continues to drain. A sponge may also be used to wipe down the interior surface.

- 11 To completely flush the old water from the plumbing lines: allow fresh water to fill into the foot-well area while the old water continues to be pumped out. Always keep at least 10cm (4 in.) of water in the foot-well so that pump 1 remains primed.
- 12 When the water from the drain hose turns clear (indicating fresh fill water), flush is complete.
- 13 Turn OFF the low speed pump.
- 14 Close the drain-hose bib on the hot tub plumbing line and continue filling hot tub with fresh water.
- 15 Place cover on hot tub (to avoid splash-out).
- 16 Open pump 1 return gate valve.
- 17 Press any button on the topside control panel (other than the pump 1 button) to take the system out of **STANDBY/DRAIN ASSIST *** mode. Pump 1 low speed and the heater will activate to circulate and heat the water while filling continues. This also reduces the possibility of an airlock occurring.
- 18 Continue adding fresh fill water until level is approximately 19mm (3/4 in.) from the top of the skimmer opening.
- 19 Once fill is complete, remove the #10 rubber expansion plug from the bottom of the skimmer housing.**
- 20 If the filter housing was opened to replace the cartridge filter, it will be necessary to release trapped air from the filter housing by carefully loosening the small black air vent/bleeder valve located on the top of the filter housing. When water begins to escape close the air vent valve.
- 21 In the unlikely event of a pump air lock (pump 1 is operating but there is no water movement from the jets), refer to section **PUMP PRIMING/RELEASING AN AIR LOCK**

** It may be necessary to put system into **STANDBY/DRAIN ASSIST*** mode in order to remove plug.

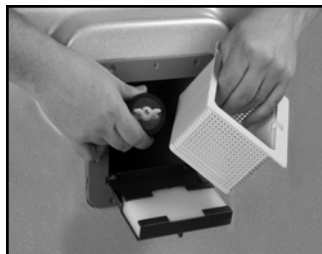


FIGURE 1

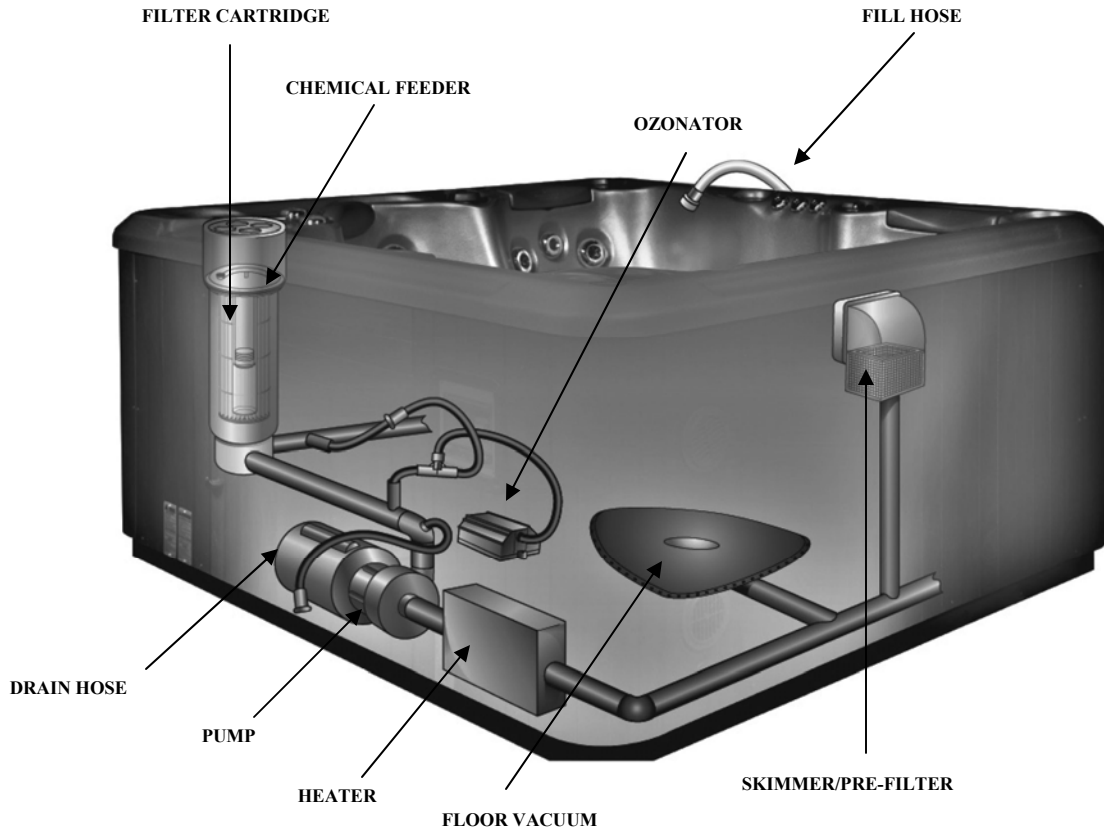


FIGURE 2

WATER SOFTENERS

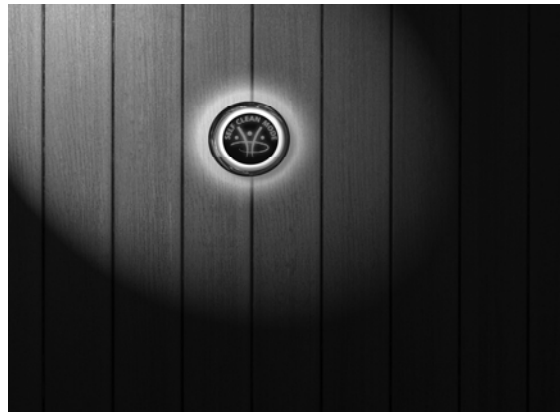
Never fill a hot tub with water from a water softener, as it could adversely effect the water chemistry, making it difficult to maintain proper water balance. If you live in an area with hard or soft water, give careful attention to your Calcium Hardness level. Topping up with soft water is acceptable.

HYDROPOOL EXCLUSIVE QUICK-DRAIN™ AND SELF-CLEANING MODE INDICATOR



THE SELF-CLEANING MODE INDICATOR

This worry-free indicator is located on the access panel of cabinet equipped spas, displays that the Self-Clean and Eco Heat Systems are both functioning. Reassuring you of your family's safety and protection.



CABINET WING-LOCKS

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.



PROTECTING YOUR CABINET WOOD FINISH

HYDROPOOL hot tub cabinets are made from Western 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.

- Add potable RV antifreeze to the holes in the bottom suction/drain to prevent any trapped water in the false floor from freezing and damaging the hot tub shell.

- 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.

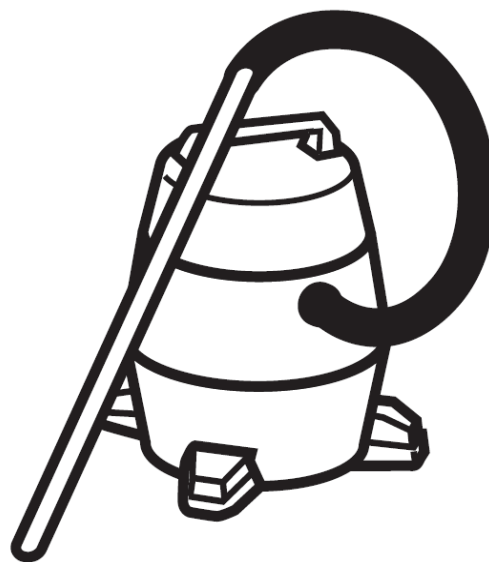
- Install the safety hardcover, and cover the entire hot tub with a tarp to prevent premature weathering of the cabinet and the safety hard cover.

- 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

ELECTRICAL / MECHANICAL

| SYMPTOM | POSSIBLE REASON(S) | ACTION |
|---|--|---|
| No Power | <ul style="list-style-type: none"> - Breaker off at main panel or fuse out - Improper wiring - Fuse blown in control | <ul style="list-style-type: none"> - Verify that breaker and/or GFCI are on If there is still no power, contact your Hydropool retailer or a qualified electrician |
| G.F.C.I. Trip | G.F.C.I. tripped | <ul style="list-style-type: none"> - As above-contact qualified electrician or your Hydropool retailer |
| No Circulation | <ul style="list-style-type: none"> - Short or ground in system - Faulty G.F.C.I | <ul style="list-style-type: none"> - See PUMP PRIMING/RELEASE AN AIR LOCK - Open gate valves - Top up water to proper level - See CLEANING SKIMMER BASKET |
| Jet Surge | <ul style="list-style-type: none"> - Pump is not primed (air lock) - Gate valves are closed - Water level is too low - Skimmer obstructed or closed - Water level too low - Blockage in plumbing lines -Suction gate valve partially closed | <ul style="list-style-type: none"> • Add water to correct level <ul style="list-style-type: none"> - Check gate valves and/or skimmer basket - Pull gate valve handle "up" all the way |
| No Heat or Erratic Heat | <ul style="list-style-type: none"> - Cartridge filter requires cleaning - Blockage in plumbing line - Suction / Return valve partially closed - Low water level - Faulty sensor | <ul style="list-style-type: none"> - Clean & reinstall - Contact your Hydropool retailer - Ensure valves are open - Top up water level - Contact your Hydropool retailer |
| Noisy Motor | <ul style="list-style-type: none"> - Damaged or worn bearings - Low voltage - Low water level - Frozen pump | <ul style="list-style-type: none"> - Contact your Hydropool retailer or a qualified electrician - Contact qualified electrician - Top up water level - Thaw out |
| Digital Top Side No Longer Displays | <ul style="list-style-type: none"> - Improper connection - Electrical brown-out | <ul style="list-style-type: none"> - Contact your Hydropool retailer - Reset GFCI OFF/ON |
| Digital Temperature Display is Erratic or Flashing | <ul style="list-style-type: none"> - Water temperature has exceeded set point | <ul style="list-style-type: none"> - Decrease filter cycle and or add cold water. If condition continues contact Hydropool retailer |

GENERAL TROUBLESHOOTING CONTINUED

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: