



Owner's Manual

Life's Better in a SpaBerry!



My SpaBerry:

Serial Number:

Date
Purchased:

Date
Installed:

Gallons/Liters:

125 gallons/ 473 liters

Notes:



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IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

When installing and using this electrical equipment, basic safety precautions should always be followed, including:

- **Risk of Accidental Drowning.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use or approach the spa unless they are supervised at all times.
- **Risk of Serious Injury or Death.** The suction fittings in this SpaBerry 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 SpaBerry 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.
- **Risk of Electric Shock.** Install at least 5 FEET (1.5 m), from all metal surfaces. As an alternative, a SpaBerry may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum No. 8 AWG (8.4 mm²) solid copper conductor attached to the wire connector on the grounding lug, inside the equipment compartment on the equipment can.
- **Risk of Electric Shock.** Do not permit any electrical appliance, such as a light, telephone, radio, television, etc. within 5 feet (1.5 m) of a SpaBerry. Never operate any electrical appliances from inside the SpaBerry or when you are wet.
- The electrical supply for this SpaBerry must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with section 680-42 of the National Electrical Code, ANSI/NFPA 70-1993. The disconnect must be readily accessible and visible to the spa occupant but installed at least 5 feet (1.5 m), from the SpaBerry's water.
- A grounding wire connector is provided on the SpaBerry to connect a minimum No. 8 AWG (8.4 mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the spa.
- Do not attempt to remove the light housing cover without lowering the water level below the light housing cover and turning the power off.
- **To Reduce the Risk of Injury:** The water in a SpaBerry should never exceed 104° F (40° C). Water temperatures between 100° F (38° C) and 104° F (40° C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when the SpaBerry's use exceeds 10 minutes.
- **To Reduce the Risk of Injury:** 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 100° F (38° C).
- **To Reduce the Risk of Injury:** Before entering a SpaBerry, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary as much as +/- 5° F (2° C).
- **To Reduce the Risk of Injury:** The use of alcohol, drugs, or medication before or during SpaBerry use may lead to unconsciousness with the possibility of drowning.



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- **To Reduce the Risk of Injury:** Pregnant women, the elderly, infants, or persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes, should consult a physician before using a SpaBerry. Pregnant or possibly pregnant women should not enter water warmer than 100° F (38° C).
- **To Reduce the Risk of Injury:** Persons using medication should consult a physician before using a SpaBerry since some medication may induce drowsiness, while other medication may affect heart rate, blood pressure, and circulation.
- Observe a reasonable time limit when using the SpaBerry. Long exposures at high temperatures can cause high body temperature. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could result in possible drowning.
- Enter and exit the SpaBerry slowly. Wet surfaces can be very slippery.
- Proper chemical maintenance of SpaBerry's water is necessary to maintain safe water and prevent possible damage to spa components.
- Use the SpaBerry straps and clip tie downs to secure the cover when not in use. This will help to discourage unsupervised children from entering the SpaBerry and keep the SpaBerry cover secure in high wind conditions. There is no guarantee that the cover, clip tie downs, actual locks will prevent access to the SpaBerry.

SAVE THESE INSTRUCTIONS



IMPORTANT SAFETY INSTRUCTIONS (CANADA) (CSA SAFETY INFORMATION)

In addition to the preceding safety instructions, Canadian owners should read and understand the following information from the Canadian Safety Association:

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

- A green colored terminal or a terminal marked G, GR, Ground, Grounding, or the symbol * is located inside the control box inside equipment compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.
- IEC Publication 417, Symbol 5019.
- At least two lugs marked "BONDING LUGS" are provided on the external surface or on the inside of the supply terminal box/compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the SpaBerry to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.
- All field-installed metal components such as rails, ladders, drains or other similar hardware within 3 meters of the SpaBerry shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.
- Children should not use a SpaBerry without adult supervision.
- **AVERTISSEMENT: NE PAS LAISSER LES ENFANTS UTILISER UNE CUVE DE RELAXATION SANS SURVEILLANCE.**



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- Do not use a SpaBerry unless all suction guards are installed to prevent body and hair entrapment.
- **AVERTISSEMENT:** POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS PUISSENT ÊTRE ASPIRÉS, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DE PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE.
- People using medications and/or having adverse medical history should consult a physician before using a SpaBerry.
- **AVERTISSEMENT:** LES PERSONNES QUI PRENNENT DES MÉDICAMENTS OU ONT DES PROBLÈMES DE SANTÉ DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.
- People with infectious diseases should not use a SpaBerry.
- **AVERTISSEMENT:** LES PERSONNES ATTEINTES DE MALADIES INFECTIEUSES NE DEVRAIENT PAS UTILISER UNE CUVE DE RELAXATION.
- To avoid injury, exercise care when entering or exiting the SpaBerry.
- **AVERTISSEMENT:** POUR ÉVITER DES BLESSURES, USER DE PRUDENCE EN ENTRANT DANS UNE CUVE DE RELAXATION ET EN SORTANT.
- Do not use drugs or alcohol before or during the use of a SpaBerry to avoid unconsciousness and possible drowning.
- **AVERTISSEMENT:** POUR ÉVITER L'ÉVANOUISSEMENT ET LA NOYADE ÉVENTUELLE, NE PRENDRE NI DROGUE NI ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION NI QUAND ON S'Y TROUVE.
- Pregnant or possibly pregnant women should consult a physician before using a SpaBerry.
- **AVERTISSEMENT:** LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.
- Water temperature in excess of 38° C may be injurious to your health.
- **AVERTISSEMENT:** IL PEUT ÊTRE DANGEREUX POUR LA SANTÉ DE SE PLONGER DANS DE L'EAU À PLUS DE 38°C.
- Before entering the SpaBerry, measure the water temperature with an accurate thermometer.
- **AVERTISSEMENT:** AVANT D'UTILISER UNE CUVE DE RELAXATION MESURER LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN THERMOMÈTRE PRÉCIS.
- Do not use a SpaBerry immediately following strenuous exercise.
- **AVERTISSEMENT:** NE PAS UTILISER UNE CUVE DE RELAXATION IMMÉDIATEMENT APRÈS UN EXERCICE SATIGANT.
- Prolonged immersion in a SpaBerry may be injurious to your health.
- **AVERTISSEMENT:** L'UTILISATION PROLONGÉE D'UNE CUVE DE RELAXATION PEUT ÊTRE DANGÉREUSE POUR LA SANTÉ.
- Do not permit electric appliances (such as a light, telephone, radio, television, etc.) within 1.5m of this SpaBerry.
- **AVERTISSEMENT:** NE PAS PLACER D'APPAREIL ÉLECTRIQUE (LUMINAIRE, TÉLÉPHONE, RADIO, TÉLÉVISEUR, ETC.) À MOINS DE 1.5 M DE CETTE CUVE DE RELAXATION.
- Maintain water chemistry in accordance with manufacturer's instructions.



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- **ATTENTION:** LA TENEUR DE L'EAU EN MATIÈRES DISSOUTES DOIT ÊTRE CONFORME AUX DIRECTIVES DU FABRICANT.
- The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in a SpaBerry.
- **AVERTISSEMENT:** LA CONSOMMATION D'ALCOOL OU DE DROGUE AUGMENTE CONSIDÉRABLEMENT LES RISQUES D'HYPERTHERMIE MORTELLE DANS UNE CUVE DE RELAXATION.

SAVE THESE INSTRUCTIONS

Hyperthermia

Prolonged immersion in hot water may cause hyperthermia. A description of the causes, symptoms, and effects of hyperthermia are as follows. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6° F, or 37° C. The symptoms of hyperthermia include dizziness, drowsiness, lethargy, and fainting. The effects of hyperthermia include:

- Failure to perceive heat,
- Failure to recognize the need to exit spa,
- Unawareness of impending hazard,
- Fetal damage in pregnant women,
- Physical inability to exit spa,
- Unconsciousness resulting in the danger of drowning.

Safety Do's and Don'ts

Do

- **DO** read all operating instructions.
- **DO** read, understand and follow all Safety, Danger and Warning instructions before use.
- **DO** test water temperature with your hand before entering to be sure that it's comfortable.
- **DO** keep the SpaBerry cover closed when the SpaBerry is not in use. This is important for safety and for economical spa operation.

Don't

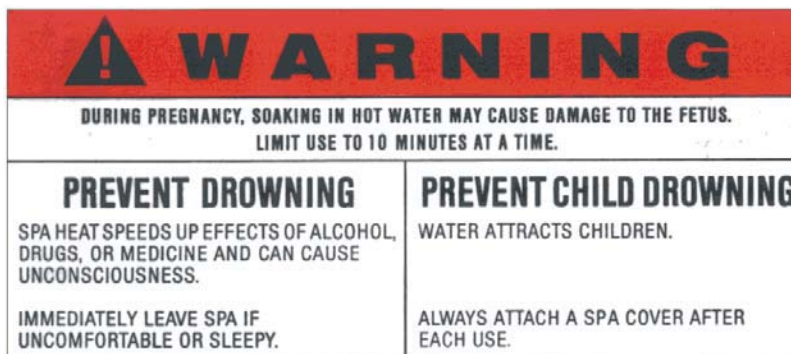
- **DON'T** block the equipment compartment vents. Blockage may cause damage to the SpaBerry equipment and will void the warranty.
- **DON'T** block or sit on the filter recess area.
- **DON'T** allow horseplay or unsupervised use of your SpaBerry.
- **DON'T** allow anyone to tamper or play with any of the safety or suction fittings of your SpaBerry.



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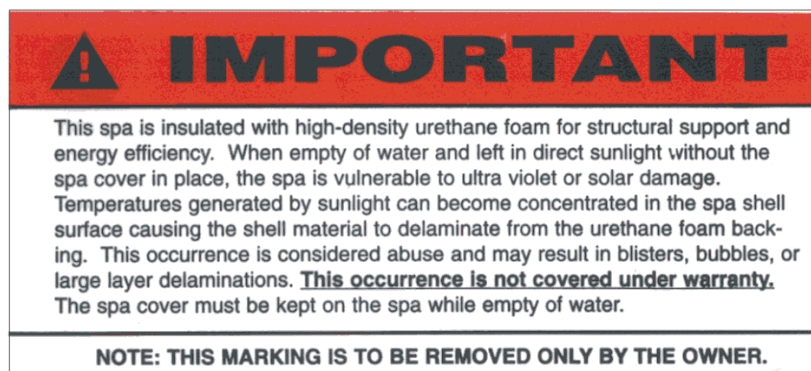
Warning Signs

Each SpaBerry has been provided with a Warning Sign and an Important Notice label.



This label outlines safety precautions. This sign should be permanently placed in a location that is visible to the SpaBerry user. Replacement signs can be obtained from:

www.thespaberry.com





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Features of the SpaBerry

Congratulations on the purchase of your SpaBerry! Take the time to read these instructions carefully. If installed and maintained properly your spa will provide many years of enjoyable, trouble-free operation. Read all of the instructions for further reference on SpaBerry operation.

The following features are included on your SpaBerry:

- Tested to UL 1563 and CAN/CSA-C22.2 NO.218.1 – M89
- 110 Volt Operation, convertible to 220V by a licensed electrician
- Completely self-contained
- Designed for indoor or outdoor use
- Top access, easy to clean filter system
- Water level referencing Weir Skimmer
- Waterfall
- Dynamic LED Light
- Built-in, automatic freeze protection
- Two person capacity
- Long life, dual speed pump
- 35 sq. ft. of filtration

Installation

Installation consists of placing your SpaBerry in a suitable location, connecting it to an electrical outlet with the proper rating, and filling it with water.

Location and Setup

Before attempting to install or use your SpaBerry, please read these instructions thoroughly. Because your SpaBerry is completely self-contained, you can install it just about anywhere you wish . . . on a deck, patio, or even indoors. Just be sure to position it above ground, in an area with good drainage and on a level surface that fully contacts the bottom of the SpaBerry.

A concrete slab is best but not required. You may choose to install it on a wood deck. If you choose to install your SpaBerry on a raised deck or indoors, we recommend you contact a licensed contractor to confirm the surface will hold a SpaBerry filled with water. Movement of your deck or slab may result in damage to the SpaBerry, which is not covered by warranty. Wherever you plan to install your SpaBerry, be sure the surface is flat and solid. Locate your SpaBerry so that the equipment is above grade and not subject to flooding. Water should always drain away from the SpaBerry. If you are placing your SpaBerry next to an obstacle, such as a fence or wall, be sure that you place the SpaBerry with the equipment compartment facing forward for easy equipment access.



Note

If you install the SpaBerry indoors, the surrounding area should be waterproof or water resistant. Water may be splashed out during normal usage and when entering or exiting the SpaBerry. SpaBerry is not responsible for any water damage, humidity damage to any indoor location for any reason.

SpaBerrys are equipped with a locking cover that meets or exceeds ASTM F1346-51 Safety Standard for Covers, but is not an adequate safety measure to prevent unsupervised entry.

Initial Start-Up

IMPORTANT: About the GFCI Circuit Interrupter — The GFCI (Ground Fault Circuit Interrupter) is an electrical safety switch that automatically shuts off power to the SpaBerry in case of an electrical malfunction. The GFCI should be OFF before the SpaBerry is filled. Manually turn off power to the SpaBerry any time by using the GFCI. Just push the switch to the OFF position. After turning off the GFCI, make sure the control panel display window is blank, to know the power is off. When the power is ready to turn back on, reset the GFCI by returning the switch to the ON position. Do not use your SpaBerry unless you understand the operation of the GFCI.

The GFCI is in the 110V cord. The cord comes out of the equipment base on the left side. The outlet that you connect the SpaBerry to must be rated at 110 volts and 15 amperes.

Note: SpaBerry is convertible to 220V. If you choose to convert to 220V, you must install a 30 or 40 amp GFCI breaker. It is recommended that this be done by a licensed electrician. Minimum wire size is #8. All connections must conform to local electrical codes. Power connections, and control jumper settings are contained in the wiring diagram inside the control box cover.

1. Locate the equipment compartment.



2. Check that the pump unions (in illustration) are hand tight to prevent the possibility of leakage.



Example of Pump Unions



Electrical Connections and Filling



Warning

Do not turn on electrical power to your SpaBerry until told to do so later in this manual.

To hook-up your SpaBerry, follow these instructions:



1. Lift the center float of the skimmer assembly until it is fully extended. Hold the centerpiece of the assembly and turn it counterclockwise until the flats of the basket are aligned with the securing tabs. Then pull the basket assembly straight up to remove.



2. Next, remove the filter packing (foam blocks) between the filter cartridge and the canister walls.
3. Finally, remove the E-Z Lock Filter cartridge by twisting the cartridge 1/4 turn counterclockwise to its stop. (Be careful not to overturn the filter) Then lift the filter out of its canister



Note

It is very important that you read the **Water Care** section before filling your SpaBerry with water.

4. Place a hose in the empty filter cannister and fill the SpaBerry to within 6 inches of the top.
5. Connect the GFCI power cord, coming from under the SpaBerry to a properly rated outlet.





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6. Once the SpaBerry is filled, replace the filter and skimmer and turn on the power at the GFCI circuit interrupter. Push the JETS Button twice on North American 60Hz models to turn the pump on to high speed. (Push it once on European 50Hz models for High Speed). Let the system run for 30 to 45 seconds to prime the pump. Then push the button again to shut the pump off.

If the jets do not start, there is air trapped in the plumbing lines. To eliminate the trapped air, turn the pumps on and off several times to force the trapped air through the pumps.

7. One minute after the power is turned on, the SpaBerry will automatically begin its first one-hour filtration cycle (this cycle may be interrupted if the Jet pump is being turned on and off at the time). If there is no jet action during the filter cycle, repeat the pump priming steps described in Step 6 above. Once the Jets are working properly, turn the power off and on again at the GFCI to reset the Start Time of the filtration cycle which will begin one minute after the power is turned on.
8. The SpaBerry will automatically filter itself twice each day. At the beginning of each filter cycle, the pump will run on high speed for 5 minutes and then on low-speed for the remainder of the filter cycle. The second filter cycle will begin twelve hours after the start of the first. The Filter Cycle light on the control panel will glow when a filter cycle is running. To set a different start time for the cycles, you can turn the power to the SpaBerry off then back on using the GFCI breaker at the time of day you want to the cycle to start (the filter cycle always starts one minute after the SpaBerry power is turned on). Reference Filter Cycle section for further details.
9. Now set the water temperature by pushing the UP/DOWN Buttons until the desired water temperature (called the "Set Temperature") appears in the Display Window. The SpaBerry will not allow the temperature to be set above 104°F (40° C). After a few seconds, the screen will revert to showing the current SpaBerry water temperature. Whenever the temperature falls below the Set Temperature, the SpaBerry will turn on the heater and run the pump at low speed to bring it back up to the Set Temperature.



To confirm that the heater is on, check that the Heat Indicator light on the control panel is glowing.

10. After completing the above steps, see the Water Care section to ensure proper water chemistry.
11. Place the SpaBerry cover on the SpaBerry to conserve energy and to keep it ready for use.



Warning

Do Not Enter The Water if the water temperature is in excess of **104° F**. Always test your water temperature with an accurate thermometer.

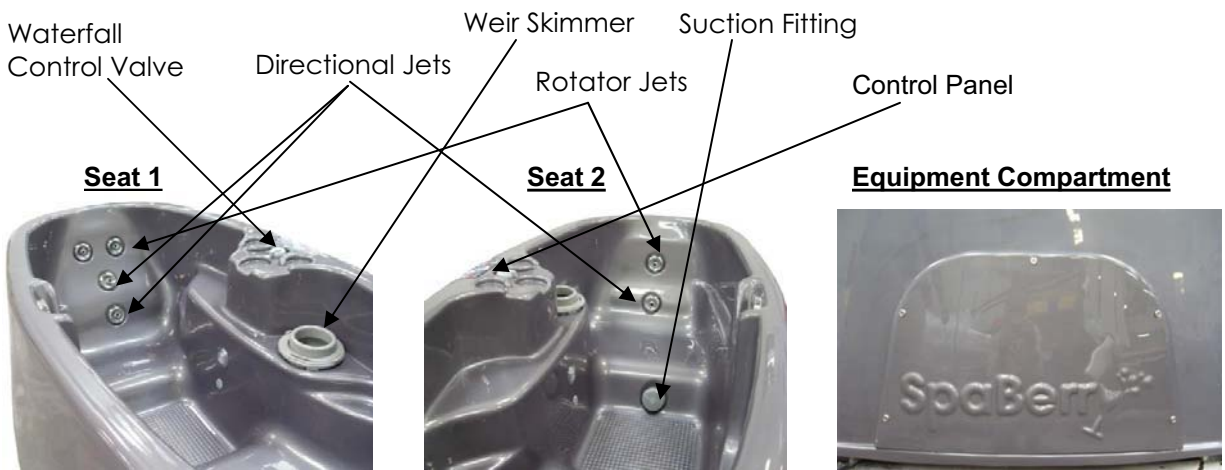
Operation

Before using your SpaBerry you should read and become totally familiar with content of this section.

Location of SpaBerry Components

The SpaBerry components consist of two seats, three Luxury Mini Rotator jets, three Luxury Mini Directional jets, one control valve, one waterfall control valve, one suction fitting, one Weir skimmer, and an equipment compartment.

The following three photographs show the location of these components.



Luxury Mini Rotator Jets



The direction of the Luxury Mini Rotator Jet is adjustable by turning the nozzle in the desired direction. Also, it may be turned on or off. To do this, simply turn the out part (or face) of the jet counterclockwise to shut it off and clockwise for the fully on position.

Luxury Mini Directional Jets



The direction of the Luxury Mini Directional Jet is adjustable by turning the nozzle in the desired direction. Also, it may be turned on or off. To do this, simply turn the out part (or face) of the jet counterclockwise to shut it off and clockwise for the fully on position.



If the heater is on and the pump is turned to high speed, the heater will turn off. This feature keeps the control system within the 15 ampere limit.



Feature

Flow Control for Waterfall



The Flow Control Valve (left) will control the waterfall (below) in your SpaBerry. Once you have turned the jets on, move the valve from one side to the other to increase or decrease the flow of the waterfall.



Suction Fitting



The **Suction Fitting** located near the bottom of the SpaBerry allows the water to be pulled from the SpaBerry and sent to the pump for re-circulation.



Never operate the SpaBerry if the suction fittings are broken or missing.

Warning

Weir Skimmer



This device removes floating debris from the water surface. This device provides a water return path to the SpaBerry's jets and flow through the filter element. See [Filter Cleaning](#) for cleaning the filter.

Equipment Compartment



The equipment compartment contains the pump, heater, control box, and temperature sensor.

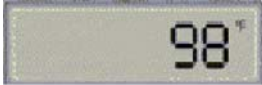
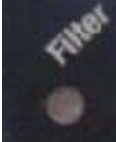

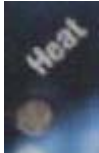



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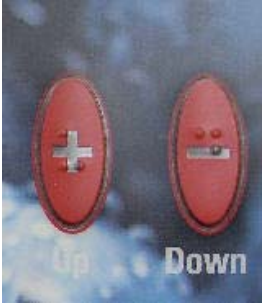

Control Panel Operation

Control the functions of your spa using the topside Control Panel. Understand the following information before starting up the spa.



Control	Function
<p>1.</p> 	<p>1. DISPLAY Window The Display Window shows the current status of the SpaBerry, its monitoring functions, self-diagnostics, or programming messages. By default it shows the SpaBerry's water temperature.</p>
<p>2.</p> 	<p>2. FILTER Indicator Light This light glows when a filter cycle is in progress.</p>
<p>3.</p> 	<p>3. SETPOINT Indicator Light This light glows when setting the Set Temperature, to indicate that the number currently shown on the display is the desired "set point," not the actual water temperature.</p>
<p>4.</p> 	<p>4. HEAT Indicator Light This light glows when the heater is on.</p>
<p>5.</p> 	<p>5. JETS Button On North American models, pushing the JETS Button once starts the pump on LOW speed. Pushing it a second time turns on HIGH speed. Pushing it a third time turns the pump off. NOTE: A built-in timer will automatically shut the pump off after 30 minutes, unless it is turned off manually. A new 30-minute cycle starts when the JETS button is pushed. Use this function to cause the SpaBerry to filter immediately after use—just push the Jets button once when you get out. The indicator light will glow when the jet pump is running.</p>

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Control	Function
<p>6.</p> 	<p>6. LIGHT Button On North American models, your SpaBerry is equipped with an LED. Pushing the Light Button once turns the LED on. Pushing it a second time turns the LED off. For more information about the programming functions of your LED, please consult the LED section of this manual.</p>
<p>7.</p> 	<p>7. TEMPERATURE Buttons Control the water temperature with the Up (+) and Down (-) Buttons. Push a button once to change the temperature by one degree, or hold it down to rapidly change it by many degrees. The temperature can be set no higher than 104 ° F (40° C). While setting the temperature, the Set Point light on the Control Panel will glow to indicate that the display is showing the desired Set Temperature and not the actual temperature. After the desired temperature is set, the Display Window will revert to showing the actual water temperature. The SpaBerry will heat to the new Set Temperature automatically.</p>
<p>8.</p> 	<p>8. PROGRAM Button Push PROGRAM to begin the process of programming the SpaBerry functions. See the section on “Programming the SpaBerry Functions” for details.</p>



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Programming the SpaBerry Functions

To initiate the programming sequence at any time, hold PROGRAM button for 3 seconds. If within 10 seconds no button is pushed, the SpaBerry will automatically exit the programming sequence and revert to the pre-set factory default settings. To exit the programming sequence at any time, do not press any button for 10 seconds. Any programming changes made up to that point are saved.

Filter Cycle Duration

Pressing PROGRAM sets the Filter Cycle Duration. This tells the SpaBerry how long to run during each filter cycle. Use the UP or DOWN to choose from 60, 90, 120, 150, or 180 minutes. The factory default is 60 minutes. After setting the desired duration, press the Program button again to move to the next step.

Number of Filter Cycles

After setting the Filter Cycle Duration set the Number of Filter Cycles the spa will run each day. Use UP and DOWN to choose 1, 2, 3, or 4 cycles per day. The factory default is 2 times per day. Then press PROGRAM to move on to the next step.

NOTE: The SpaBerry considers the "Start Time" of the first filter cycle to be one minute after its power is turned on. To change the starting time of the first filter cycle and all following cycles, turn the SpaBerry power off and then on at the desired time of day to reset it. All other programs will need to be reset because they will revert to factory settings.



Long and/or numerous filter cycles could cause overheating of the SpaBerry, especially in hot climates.

Temperature Unit Selection (°F or °C)

Pressing the Program button again brings you to the setting for the Temperature Units. Use UP and DOWN to choose Fahrenheit (°F) or Celsius (°C). The factory default setting is Fahrenheit on North American models and Celsius on European models.

Press the Program Button again to finish and exit the programming sequence.

Control Panel Display Messages

The following messages may appear in the Display Window:



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“OH” – Overheat Warning

If “OH” appears in the Display Window, the spa has overheated. **DO NOT ENTER THE WATER.** Remove the SpaBerry cover and allow the water to cool below 110° F (43° C). Then reset the power to the SpaBerry by resetting the GFCI breaker. If the problem recurs, turn off the power to the SpaBerry. Go to www.thespaberry.com and complete a service request form.

Flashing Dots on the Control Panel

DO NOT ENTER THE WATER IF THERE ARE THREE FLASHING LIGHTS ON THE CONTROL PANEL.

This indicates a problem with the SpaBerry.

If there are flashing lights, but the Display Window shows the current water temperature, there may be a water flow problem. Check the water level and/or clean the filter.

The flashing lights should stop once the problem is fixed. If the problem persists, reset the power to the SpaBerry by turning the GFCI breaker off then back on.

If the problem persists after resetting the power, go to www.thespaberry.com and complete a service request form.

Erroneous Temperature on the Display

If there is a temperature of 32° F (0° C) or 132° F (55° C), **DO NOT ENTER THE WATER.** The system has detected a problem. The actual water temperature is unknown. Go to www.thespaberry.com and complete a service request form.

Dynamic L.E.D. Light

SpaBerry is equipped with the Dynamic L.E.D. that controls the colors by pushing the Light Button on the keypad:

To Operate Light Functions:

- **Single Intensity Light System**
 - Press **Light** key once and the first color pattern sequence will be displayed
 - To activate next color pattern sequence, press **Light** key again. Light will turn off, then press **Light** key within 3 seconds to activate the next color pattern sequence.
 - If you don't press Light key within 3 seconds, you'll return to Step 1

- **Color pattern sequences are:**

○ Step 1: Slow Fade	Step 2: Solid White
○ Step 3: Solid Blue	Step 4: Solid Cyan
○ Step 5: Solid Pink	Step 6: Solid Red
○ Step 7: Solid Green	Step 8: Solid Yellow
○ Step 9: Flashing Fade	Step 10: Las Vegas Roulette
○ Step 11: Storm	

Water Care

Water Start-Up Procedure

Never add any chemicals until all occupants are out of the water. Chemicals coming in contact with humans can cause skin or eye irritation.

All chemical dosages in this section are based on treating 100 gallons (379 liters) of water. To calculate the appropriate amount to use, multiply the dosage per 100 gallons by your spa's capacity in gallons divided by 100. *For example*, to administer a 2 ounce per 100 gallons dose to a spa, multiply the 2 ounces by (125 gallons / 100), or 1.25, which equals 2.5 ounces.

One ounce (29.6 ml) is approximately equal to two tablespoons or six teaspoons.

Test Your Water

The procedures in this section must be followed anytime you drain or fill your SpaBerry, including when you first install your spa. Additionally, if your source water changes, you must test the new source in this manner before running the spa as the chemical makeup of the water may have changed.

Recording Test Results

Record your test results in this table for future reference. This table can then be used for future water changes or major refills without retesting – unless you move or something changes your local source water.

Water Refill Data Table	
Model Type: <u>SpaBerry</u>	Capacity: <u>125 gallons/ 473 liters</u>

	Ideal	Your Water	Necessary Adjustments
Calcium	200-400 ppm	_____ ppm	Add _____ of _____



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TDS	300-2000 ppm	_____ ppm	Add _____ of table salt
Metals	0 ppm	_____ ppm	Add _____ of Sequestrant

Check Your Water

Total Alkalinity

Total Alkalinity (TA) is a measurement of the water's ability to resist changes in pH. TA affects and buffers the pH of the water. If TA is above 120 ppm, pH becomes difficult to adjust. If TA is below 80 ppm, pH becomes unstable and is more difficult to keep in the ideal range. Proper TA levels also allow other chemicals to perform optimally.

pH Level

All bodies of water have a pH level, which is a measurement of the hydrogen ion concentration in the water. A pH reading of 7.0 is considered neutral; a lower reading is considered acidic and a higher reading is considered basic. Your spa's pH level should be between 7.2 – 7.8.

How To Test Your Water

Test the Total Alkalinity (TA) and pH utilizing Spa Test Strips. Be sure to turn the jets off when testing. Follow the directions on the Test Strips container to ensure an accurate reading. TA should read between 80 - 120 ppm, and pH should read between 7.2 - 7.8.

Adjust Total Alkalinity first. When TA is in the proper range, adjust the pH. Finally, check and adjust the sanitizer level.

Total Alkalinity Control

Use the following guidelines if you need to make adjustments.

1. Total Alkalinity is above 120 ppm
 - a. Turn the jets off and then add 1 ounce (29.6 ml) of pH/Alkalinity Decreaser into the center of the water.
 - b. Wait 1 minute, then turn the jets on at high speed for at least 5 minutes.
 - c. Turn jets off and retest.
 - d. Repeat this procedure until the TA reads close to 80 ppm.

When Total Alkalinity is above 120 ppm the pH will change slower than the Total Alkalinity.

2. Total Alkalinity is below 80 ppm
 - a. Add 1 ounce (29.6 ml) of pH/Alkalinity Increaser with



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- the jets turned on at high speed.
- b. Continue running the jets at high speed for at least 5 minutes.
- c. Turn the jets off and retest.
- d. Repeat this procedure until the TA reads close to 80 ppm.

When Total Alkalinity is below 80 ppm the pH will change faster than the Total Alkalinity.

pH Control

High pH (above 7.8) can reduce sanitizer efficiency, cloud the water, promote scale formation on surfaces and equipment, and interfere with filter operations. When pH is too high, add pH/Alkalinity Decreaser. Low pH (below 7.2) is equally damaging and can cause equipment corrosion, irritating water and rapid sanitizer dissipation. When pH is too low, add pH/Alkalinity Increaser.

First, test and adjust Total Alkalinity per the instructions in the Total Alkalinity section. Test the pH level only after you have adjusted the Total Alkalinity. Use the following guidelines if you need to make adjustments.

1. pH above 7.8
 - a. Add 1 ounce (29.6 ml) of pH/Alkalinity Decreaser with the jets turned to high speed.
 - b. Continue running jets on high for at least 5 minutes.
 - c. Turn the jets off and retest.
 - d. Repeat procedure until the pH reads between 7.2 – 7.8.
2. pH below 7.2
 - a. Add 1 ounce (29.6 ml) of pH/Alkalinity Increaser with the jets turned to high speed.
 - b. Continue running jets on high for at least 5 minutes.
 - c. Turn jets off, retest and repeat procedure until the pH reads between 7.2 – 7.8.

Water Testing

We recommend testing your water before each use with a Spa Test Strip.

Total Alkalinity

Total Alkalinity (TA) should be in the 80-120 ppm range. If it is not in the acceptable range, refer to the Check Your Water section for details on bringing your TA back to normal.

pH Control

The acceptable range for pH is between 7.2 and 7.8. If it is not in the acceptable range, refer to the Check Your Water section for details on bringing your pH back to normal.



Danger

Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the SpaBerry unless they are supervised at all times.

Draining Your SpaBerry

The SpaBerry is gravity-drained, without the need for a pump. To drain the spa, turn off power, locate the hose bib, which is located in the equipment compartment. Screw a garden hose onto the hose bib, put the other end of the hose in a safe place for water run-off and then turn the valve on the side of the hose bib ninety degrees to release the flow of water. Do not forget to close the valve again before re-filling the SpaBerry.

Filter Cleaning

Always turn off the power to the SpaBerry before cleaning the filter elements. Your SpaBerry is equipped with one top access filter cartridge. We recommend that you clean the filter every month as preventative maintenance.

To clean the skimmer filter cartridge, lift the center float of the skimmer assembly until it is fully extended. Hold the centerpiece of the assembly and turn it counter clockwise until the flats of the basket are aligned with the securing tabs. Then pull the basket assembly straight up to remove. Next, remove the E-Z Lock Filter cartridge by twisting the cartridge 1/4 turn counterclockwise to its stop. (Be careful not to overturn the filter) Then lift the filter out of its canister. Clean the cartridge with a high-pressure garden hose. Every other cleaning, soak the cartridge in cartridge cleaner, rinse it thoroughly, and reinstall. Replace the skimmer basket assembly and the access lid or cover. After cleaning, run the pump for a few minutes at high speed then return to the heating mode.

SpaBerry Surface Care

It is recommended that a “cheesecloth” rag, or other soft rag, is used to clean the entire shell surface with Water Line Cleaner or a similar product from your SpaBerry dealer. Or use pH/Alkalinity Increaser or a 50/50 solution of denatured alcohol and water. Be sure to thoroughly rinse the shell after cleaning. ***Do not use citrus-based cleaners on the shell surface.***

SpaBerry Vinyl Covers

To maintain a “nearly original” appearance on your vinyl cover, it is recommended that a protectant with a high SPF (sun protection factor) is applied per instructions of the protectant.

Special Cold Weather Instructions



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All SpaBerry's are designed for year-round use. They are insulated for energy efficiency and to protect the plumbing and equipment when the system is operational. The system has a "Smart Winter" freeze protection mode to circulate water during freezing weather, assuming the system has electrical power and the proper water level. Therefore, keeping your system operational is your best defense against freeze damage.

However, if there are freezing conditions present and shutting down the SpaBerry for the winter is unavoidable, or where conditions may get too cold for the SpaBerry's "Smart Winter" mode to prevent freezing, the SpaBerry should be winterized by a professional authorized service provider. Draining the SpaBerry will not prevent freeze damage, because small amounts of water in the plumbing can expand and damage the system.



Caution

Winterizing the SpaBerry is specifically not covered by the warranty. This is why only a professional should be allowed to winterize your SpaBerry if it becomes necessary.



Caution

The system is equipped with automatic freeze protection. However, a power outage can cause the equipment to freeze quickly. During freezing conditions, check the system frequently to ensure proper operation. Always check the system after any power failure to ensure that it is operational.

Springtime Startup of a Winterized System

If the SpaBerry has been winterized, it is highly recommended that you contact an authorized service provider to restart it. The following is an outline of the procedures involved.

- Make sure o-rings for the pump are in place and undamaged
- Make sure all the fittings that loosened are re-tightened
- Replace all jet fittings, pump drain plugs and hose bib drain
- Fill the system with water as per initial start up instructions
- Turn the power back on
- Run the jets on high speed for about 15 minutes
- Drain the water
- Put the filter back in
- Refill the system and treat chemically as one would after a normal water change

For more information about Winterizing the system, or restarting a Winterized system, please go to www.thespaberry.com and complete a service request form.



Caution

During freezing conditions, check your SpaBerry frequently to ensure proper operation. Always check your SpaBerry after any power failure to ensure that it is operational.

Warranty Information

Register your new SpaBerry online at www.thespaberry.com at your convenience! Timely product registration will allow for enhanced communication and prompt service under the terms of your warranty, should the need arise. Registration is a requirement before any service can be authorized and/or performed.



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ONE YEAR LIMITED WARRANTY

This warranty is available to the original purchaser only when purchased in the United States or Canada. SpaBerry is not to be used in commercial applications.

SpaBerry shell is warranted against cracks, blisters and delamination in the shell for one year from the original date of delivery. A crack is defined as a break in the shell that goes all the way through the shell. Equipment, fittings and internal plumbing lines are warranted against leaking due to defects in materials or workmanship for one year from the original date of delivery. The SpaBerry cover is warranted for one year. No charge will be made for parts. All labor and service fees are the responsibility of the SpaBerry owner.

SpaBerry will repair or replace any component found to be defective under the terms and conditions of this warranty. SpaBerry reserves the right to substitute a component of equivalent value either new or factory reconditioned and any such repair or replacement shall assume as its warranty only the remaining portion of the warranty on the original product.

SpaBerry must authorize the return of all defective parts. Customer will bear all freight costs for parts or the SpaBerry returned for repair or replacement.

EXCEPTIONS TO WARRANTY

The following items are specifically excluded from any warranty coverages:

SpaBerry is not liable for the following: removal and/or installation of the SpaBerry, the SpaBerry surface damage or discoloration, cosmetic scratches, gouges or crazing damage caused by: failure to follow procedures defined in the Owner's Manual/Guides, improper or incorrect electrical hook-up, scratches and damage caused by normal use, improper installation or installing the SpaBerry on unstable surface, moving the SpaBerry, including, but not limited to use of a crane, use of sanitizers such as Tri-Chlor (tablets or sticks), calcium hypochlorite, sodium hypochlorite, and any chemical that may dissolve or remain undissolved on the SpaBerry shell, damage or staining caused by mineral or chemical content of the SpaBerry's water. Avoid use of citrus-based cleaning solutions, they can cause shell crazing. SpaBerry does not assume any responsibility for incidental or consequential damages, use of SpaBerry in a non-residential application, acts of nature, accidents, or other causes beyond the control of SpaBerry. A SpaBerry, when empty of water and left in direct sunlight without the hot tub cover in place, are vulnerable to ultraviolet or solar damage. Temperatures generated by sunlight can become concentrated in the shell surface causing the shell material to delaminate. This occurrence is considered abuse and may result in surface blisters, bubbles, or large layer delaminations. This occurrence is not covered under warranty. The SpaBerry cover must be kept on the SpaBerry while empty of water. All SpaBerry accessories including, but not limited to, SpaBerry's "**BerryWrap™**" appliqués and BerryPure™. Accessories may be covered by other warranties. This warranty gives you specific legal rights and you may also have other rights which vary from state to state or province to province.



Troubleshooting Guide

Heating System

Symptom	Problem	Corrective Action
Does not heat	Temperature setting is too low	Increase temperature on control panel
	Dirty filter	Clean filter
	High Limit Reset Switch tripped	Go to www.thespaberry.com and complete a service request form
	Pressure switch malfunction	Go to www.thespaberry.com and complete a service request form
	Heater light blinks	Put on low speed
Too hot	Temperature setting is too high	Decrease temperature on control panel
	High limit tripped	Go to www.thespaberry.com and complete a service request form
Hot Tub Temperature erratic	Water level	Go to www.thespaberry.com and complete a service request form

Electrical System

Symptom	Problem	Corrective Action
Will not turn on – in any mode	No power	Check circuit breaker and/or GFCI Check to see if High Limit Reset Switch has tripped
Turns on by itself	Normal automatic daily power filtration, or anti-freeze cycle	No action required
Pump shuts down unexpectedly while in use	Motor over-heated and automatic protective device has shut down pump.	If pump will not restart when JETS pad is pushed, go to www.thespaberry.com and complete a service request form

Water System

Symptom	Problem	Corrective Action
Pulsating jets	Water level too low	Fill with water to 6" from top of spa
No Jet Action, or action is poor	Jets are turned off	Turn jets on by turning jet face clockwise
	Dirty Filter	Clean Filter
	Air lock	Loosen pump union to allow air to bleed

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Life's Better in a SpaBerry!