



BEACHCOMBER  
HOT TUBS



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# BEACHCOMBER HOT TUB OWNER'S GUIDE

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Beachcomber. The Hybrid Hot Tub Company™

# Congratulations

Your hot tub is an investment in your health and happiness. This Owner's Guide is intended to give you instructions on the basic operation of your hot tub. For the most up-to-date and current statistics on Beachcomber Hot Tubs, refer to our website. You can also find all Beachcomber Owner's Guides online. Visit our website at: [www.beachcomberhottubs.com](http://www.beachcomberhottubs.com)

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This Owner's Guide is for hot tubs manufactured from November 1st, 2009.

### Record Important details of your new Beachcomber Hot Tub

MODEL NUMBER: \_\_\_\_\_ DATE OF PURCHASE: \_\_\_\_\_

HOT TUB SERIAL NUMBER: \_\_\_\_\_ STORE NAME: \_\_\_\_\_

GUARANTEE NUMBER: \_\_\_\_\_ STORE PHONE: \_\_\_\_\_

# IMPORTANT SAFETY INSTRUCTIONS

## READ AND FOLLOW ALL INSTRUCTIONS

### AVOIDING THE RISK TO CHILDREN

**WARNING:** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times

#### **DANGER: Risk of Accidental Drowning**

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

### AVOIDING THE RISK OF ELECTROCUTION:

**WARNING:** For outdoor use only. This unit is not intended for indoor use.

- A wire connector is provided on this unit to connect a minimum 8 AWG (8.4 mm<sup>2</sup>) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe or conduit within 5 feet (1.5m) of the unit.

#### **DANGER: Risk of injury**

- For cord connected units: a) Replace damaged cord immediately. b) Do not bury cord. c) Connect to a grounded, grounding type receptacle only.

#### **DANGER: Risk of Electric Shock.**

- Install at least 5 feet (1.5m) from all metal surfaces. As an alternative, a hot tub or spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 8 AWG (8.4 mm<sup>2</sup>) of solid copper conductor to the wire connector on the terminal box that is provided for this purpose.
- Do not permit any electrical appliance, such as a light, telephone, radio or television, within 5 feet (1.5m) of a hot tub or spa.

### AVOIDING THE RISK OF INJURY:

**DANGER: Risk of Injury.** The suction fittings in this hot tub or spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible.

Never operate a hot tub or spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

**WARNING:** To reduce the risk of injury:

- The water in a hot tub or spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 40°C are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when hot tub or spa use exceeds 10 minutes. Prolonged immersion in a hot tub or spa may be injurious to your health.
- 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 hot tub or spa water temperatures to 38°C (100°F). Pregnant or possibly pregnant women should consult a physician before using a hot tub or spa.
- Before entering a hot tub or spa, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices varies.
- The use of alcohol, drugs or medication before or during hot tub or spa use may lead to unconsciousness with the possibility of drowning.
- Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using a hot tub or spa. Persons with infectious diseases should not use a hot tub or spa.
- Persons using medication should consult a physician before using a hot tub or spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

# IMPORTANT SAFETY INSTRUCTIONS

## READ AND FOLLOW ALL INSTRUCTIONS

- Do not enter a hot tub or spa immediately following strenuous exercise.
- To avoid injury, exercise care when entering or exiting the hot tub or spa.

### ELECTRICAL EQUIPMENT:

When using this electrical equipment, basic safety precautions should always be followed including the following:

- A green colored terminal, or terminal marked G, GR, Ground, Grounding or the international grounding symbol 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 electrical supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.
- 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 or spa 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 / 9.84 feet of the hot tub or spa shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG
- There are no user serviceable parts within the management system. The high voltage can cause injury or death.
- The hot tub or spa must be hooked up to a Ground Fault Circuit Interrupter (G.F.C.I.) by a licensed electrician.
- Use the test button on your G.F.C.I monthly to ensure it is working properly.
- **CAUTION:** Wiring Connected in this box must be rated at 300V.

### AUDIO COMPONENTS:

When using audio components, basic safety precautions should always be followed including the following:

- **CAUTION:** Risk of Electric Shock. Do not leave compartment door open.
- **CAUTION:** Risk of Electric Shock. Replace components only with identical components.
- Do not operate the audio controls while inside the hot tub or spa.
- **WARNING:** Prevent Electrocution. Do not connect any auxiliary components (for example cable, additional speakers, headphones, additional audio/video components, etc) to the system.
- These units are not provided with an outdoor antenna; when provided, it should be installed in accordance with Article 810 of the National Electrical Code, ANSI/NFPA 70.
- Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified personnel.
- When the power supply connections or power supply cord(s) are damaged; if water is entering the audio/video compartment or any electrical equipment compartment area; if the protective shields or barriers are showing signs of deterioration; or if there are signs of other potential damage to the unit, turn off the unit and refer servicing to a qualified service personnel.
- This unit should be subjected to periodic routine maintenance (for example, once every 3 months) to make sure that the unit is operating properly.

### SAFETY SIGN INSTALLATION:

- Each Beachcomber Hot Tub is shipped with a Safety Sign in the owner's package.
- This Safety Sign is to be permanently located where visible to the users of this hot tub or spa. It is important that all users, both frequent and occasional, are aware of this sign and its warning.
- Additional or replacement copies of this sign can be obtained from Beachcomber Hot Tubs by calling 1-800-663-6557.

## SAVE THESE INSTRUCTIONS

# IMPORTANT SAFETY INSTRUCTIONS

## READ AND FOLLOW ALL INSTRUCTIONS

- ⚠ **WARNING: CHILDREN SHOULD NOT USE SPAS OR HOT TUBS WITHOUT ADULT SUPERVISION.**
  - ⚠ **WARNING: DO NOT USE SPAS OR HOT TUBS UNLESS ALL SUCTION GUARDS ARE INSTALLED TO PREVENT BODY AND HAIR ENTRAPMENT.**
  - ⚠ **WARNING: PEOPLE USING MEDICATIONS AND/OR HAVING AN ADVERSE MEDICAL HISTORY SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB.**
  - ⚠ **WARNING: PEOPLE WITH INFECTIOUS DISEASES SHOULD NOT USE A SPA OR HOT TUB.**
  - ⚠ **WARNING: TO AVOID INJURY, EXERCISE CARE WHEN ENTERING OR EXITING THE SPA OR HOT TUB.**
  - ⚠ **WARNING: DO NOT USE DRUGS OR ALCOHOL BEFORE OR DURING THE USE OF A SPA OR HOT TUB TO AVOID UNCONSCIOUSNESS AND POSSIBLE DROWNING.**
  - ⚠ **WARNING: PREGNANT OR POSSIBLY PREGNANT WOMEN SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB.**
  - ⚠ **WARNING: WATER TEMPERATURE IN EXCESS OF 38 °C CAN BE INJURIOUS TO YOUR HEALTH.**
  - ⚠ **WARNING: BEFORE ENTERING THE SPA OR HOT TUB, MEASURE THE WATER TEMPERATURE WITH AN ACCURATE THERMOMETER.**
  - ⚠ **WARNING: DO NOT USE A SPA OR HOT TUB IMMEDIATELY FOLLOWING STRENUOUS EXERCISE.**
  - ⚠ **WARNING: PROLONGED IMMERSION IN A SPA OR HOT TUB CAN BE INJURIOUS TO YOUR HEALTH.**
  - ⚠ **WARNING: DO NOT PERMIT ELECTRIC APPLIANCES (SUCH AS A LIGHT, TELEPHONE, RADIO, OR TELEVISION) WITHIN 1.5 M OF THIS SPA OR HOT TUB.**
- CAUTION: MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.**

Use the temperature adjustment keys on the control panel to adjust and select a water temperature. Refer to the temperature adjustment instructions for your topside control panel type. Always check the temperature of the water before entry with an accurate thermometer. Recommended time in water at 100°F / 38°C is 10 minutes.

**WATER TEMPERATURE MAY NEED TO BE DECREASED FOR CHILDREN OR THE ELDERLY. PROLONGED IMMERSION IN HOT WATER MAY INDUCE HYPERTHERMIA.**

### AVOIDING THE RISK OF HYPERTHERMIA:

The causes, symptoms, and effects of hyperthermia may be described as follows. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 37 °C. 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 spa;
- Physical inability to exit spa;
- Fetal damage in pregnant women; and
- Unconsciousness and danger of drowning.

- ⚠ **WARNING: THE USE OF ALCOHOL OR DRUGS CAN GREATLY INCREASE THE RISK OF FATAL HYPERTHERMIA IN HOT TUBS AND SPAS.**

# IMPORTANTES DIRECTIVES DE SÉCURITÉ

## LISEZ ET SUIVEZ TOUTES LES DIRECTIVES SUIVANTES

- ⚠ **AVERTISSEMENT: NE PAS LAISSER LES ENFANTS UTILISER UNE CUVE DE RELAXATION SANS SURVEILLANCE**
  - ⚠ **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**
  - ⚠ **AVERTISSEMENT: LES PERSONNES QUI PRENNENT DES MÉDICAMENTS ET (OU) ONT DES PROBLÈMES DE SANTÉ DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION**
  - ⚠ **AVERTISSEMENT: LES PERSONNES ATTEINTES DE MALADIES INFECTIEUSES NE DEVRAIENT PAS UTILISER UNE CUVE DE RELAXATION**
  - ⚠ **AVERTISSEMENT: POUR ÉVITER DES BLESSURES, USER DE PRUDENCE EN ENTRANT DANS UNE CUVE DE RELAXATION ET EN SORTANT**
  - ⚠ **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**
  - ⚠ **AVERTISSEMENT: LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION**
  - ⚠ **AVERTISSEMENT: IL PEUT ÊTRE DANGEREUX POUR LA SANTÉ DE SE PLONGER DANS DE L'EAU À PLUS DE 38 °C**
  - ⚠ **AVERTISSEMENT: AVANT D'UTILISER UNE CUVE DE RELAXATION, MESURER LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN THERMOMÈTRE PRÉCIS**
  - ⚠ **AVERTISSEMENT: NE PAS UTILISER UNE CUVE DE RELAXATION IMMÉDIATEMENT APRÈS UN EXERCICE FATIGANT**
  - ⚠ **AVERTISSEMENT: L'UTILISATION PROLONGÉE D'UNE CUVE DE RELAXATION PEUT ÊTRE DANGEREUSE POUR LA SANTÉ**
  - ⚠ **AVERTISSEMENT: NE PAS PLACER D'APPAREIL ÉLECTRIQUE (LUMINAIRE, TÉLÉPHONE, RADIO, TÉLÉVISEUR, ETC) À MOINS DE 1.5 M DE CETTE CUVE DE RELAXATION**
- ATTENTION : LA TENEUR DE L'EAU EN MATIÈRES DISSOUTES DOIT ÊTRE CONFORME AUX DIRECTIVES DU FABRICANT.**

Utilisez les touches de réglage de la température sur le panneau de commande pour régler et sélectionnez une température d'eau. Référez aux instructions de réglage de la température pour votre panneau de commande. Vérifiez toujours la température de l'eau à l'aide d'un thermomètre avant d'entrer dans le hot tub. Durée recommandée lorsque la température de l'eau est de 100°F / 38°C est 10 minutes.

**IL PEUT ÊTRE NÉCESSAIRE DE RÉDUIRE LA TEMPÉRATURE DE L'EAU POUR LES ENFANTS OU LES PERSONNES ÂGÉES. L'IMMERSION PROLONGÉE DANS L'EAU CHAUDE PEUT PROVOQUER L'HYPERTHERMIE.**

### HYPERTHERMIE:

Les causes, symptômes et effets de l'hyperthermie peuvent être décrits comme suit. L'hyperthermie survient lorsque la température interne du corps atteint un niveau de plusieurs degrés au-dessus de la température normale de 37 °C. Les symptômes de l'hyperthermie comprennent la somnolence, la léthargie et une augmentation de la température interne du corps. Les effets de l'hyperthermie comprennent

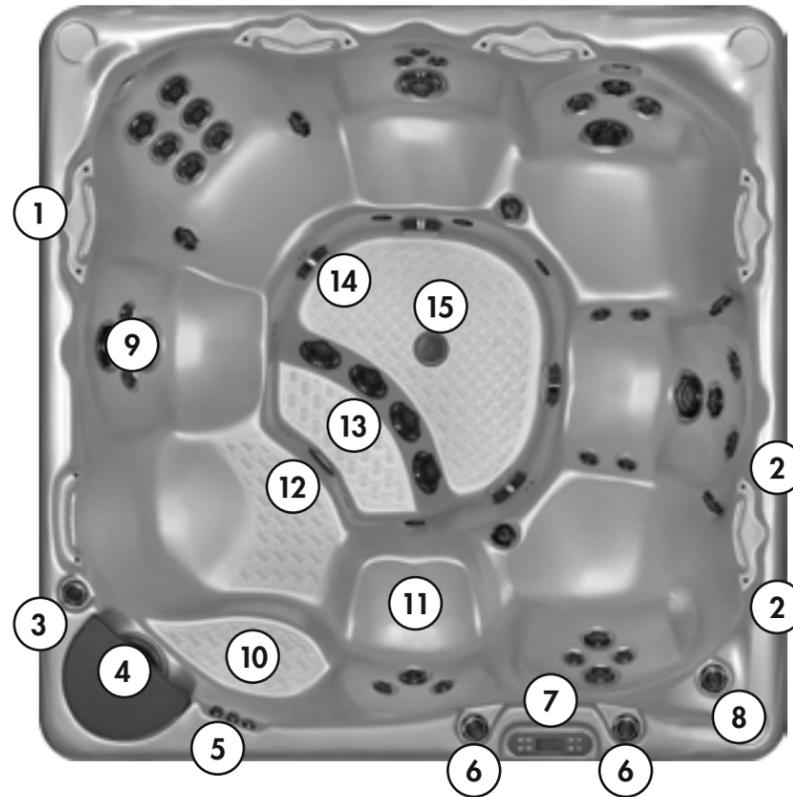
#### LES EFFETS :

- inconscience d'un danger imminent;
- incapacité de percevoir la chaleur;
- incapacité de reconnaître la nécessité de sortir du spa;
- inaptitude physique à sortir du spa;
- lésions du fœtus chez la femme enceinte; et
- évanouissement et danger de noyade.

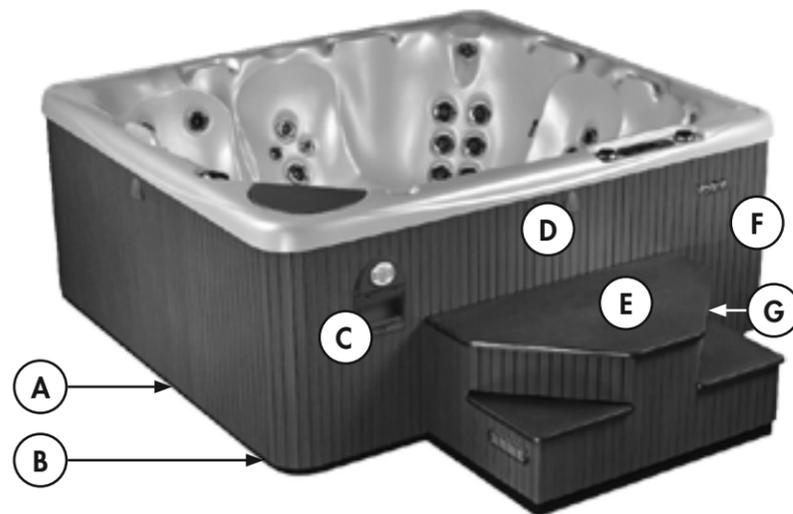
- ⚠ **AVERTISSEMENT: LA CONSOMMATION D'ALCOOL OU DE DROGUE AUGMENTE CONSIDÉRABLEMENT LES RISQUES D'HYPERTHERMIE MORTELLE DANS UNE CUVE DE RELAXATION.**

# Beachcomber Hot Tub Components Overview

Familiarize yourself with the components of your personal Beachcomber Hot Tub. Some of these features shown may be optional at extra cost and are shown here for the safety and convenience of our worldwide customers.



1. Molded Cup Holder Handgrips
2. Eclipse Lighting Fixtures
3. Roman Arch Waterfall Control Valve
4. Filter Lid for Micro-filter and Skimmer Basket
5. Roman Arch Waterfall Jets
6. Air Injection Controls
7. Energy Saver Management System Topside Control Pad
8. Reflex Foot Massage RFM Control Valve
9. Beachcomber FlexJets
10. Safety Textured Steps for Easy Hot Tub Access
11. Cooling Seat
12. Hot Tub Internal Light
13. Reflex Foot Massage RFM Jets
14. VGB Approved Suction Fittings
15. Gravity Floor Drain



- A. Perma-Seal Foundation (on hot tub bottom)
- B. Electrical Conduit Access (on both sides)
- C. Quintessential Surround Sound QSS System
- D. Garden Everlight Fixture (on all four sides)
- E. SafeAxis Safety Step (Hybrid3 Edition only)
- F. Enviroskirt Cabinetry
- G. Energy Saver Management System

# Basic Hot Tub Configurations

Beachcomber manufactures hot tubs in two configurations: the Hybrid3 Edition featuring the equipment outside of the hot tub cavity under a safety step, and the LEEP Portable which features the equipment tucked inside the hot tub cabinetry behind an access door.



The LEEP Portable Hot Tub

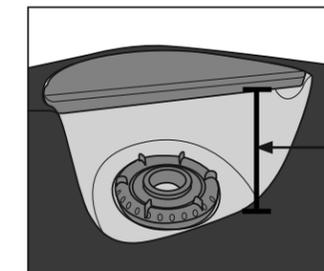


The Hybrid3 Edition Hot Tub

## Starting Up your Beachcomber Hot Tub for the First Time

For Hybrid3 Edition Hot Tubs, the external pumping and heating equipment arrives in its own separate Hybrid3 Equipment Box. The equipment must be hooked up to the hot tub using the separate instructions provided in the Hybrid3 Equipment Box. For either LEEP or Hybrid3 hot tubs, electrical connections must be performed by a qualified electrician. After the proper electrical connections have been performed to your proper standard codes, the qualified installer must follow these steps:

1. Check all union fittings on the Hybrid3 or LEEP pumping and heating equipment to ensure gaskets are in place with a tight fit. Hand-tightening is sufficient. If leaking is noted at these fittings, the gasket may be missing, not seated properly or the fitting may not be tight enough. Unscrew the union and check.
2. Open all knife valves. Fill the hot tub with water from a garden hose. You can place the hose directly in the hot tub, or attach it to the drain/fill valve located down by the pumps, to fill from the bottom. We recommended running water through the garden hose to waste for 10 seconds, before filling the hot tub to ensure fresh water from the hose source.
3. Fill the hot tub to the half way mark on the skimmer opening as shown. For Hush Pump equipped hot tubs, the level can be lowered to one third up the skimmer opening, allowing for more displacement if the hot tub is subjected to use by more than the recommended number of people for that model. Do not allow the water to go below this level.
4. Open the air bleed valve to release any air trapped in the external plumbing (see equipment configuration diagrams in this guide). There is one air bleed valve on the model 321 hot tub, and all 300, 500 and 700 series hot tubs equipped with the Hush Pump.
5. With the air bled from the system, you can now turn on the power at the GFCI. Once the control panel is on, use the instructions on the following pages to complete your start up. Refer to the instructions for the control panel that matches your system.

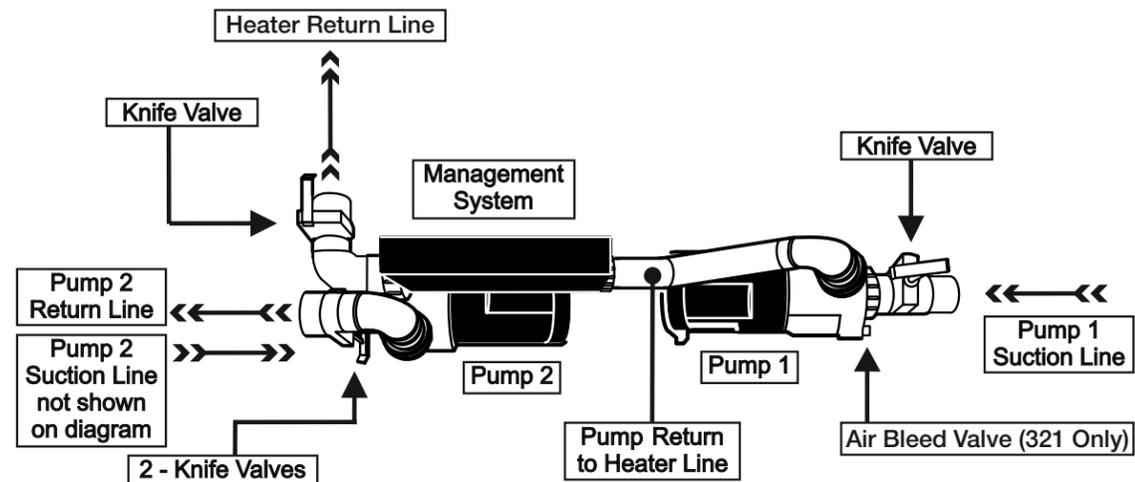


**Water Level**  
Normal water level is half way up the skimmer opening.

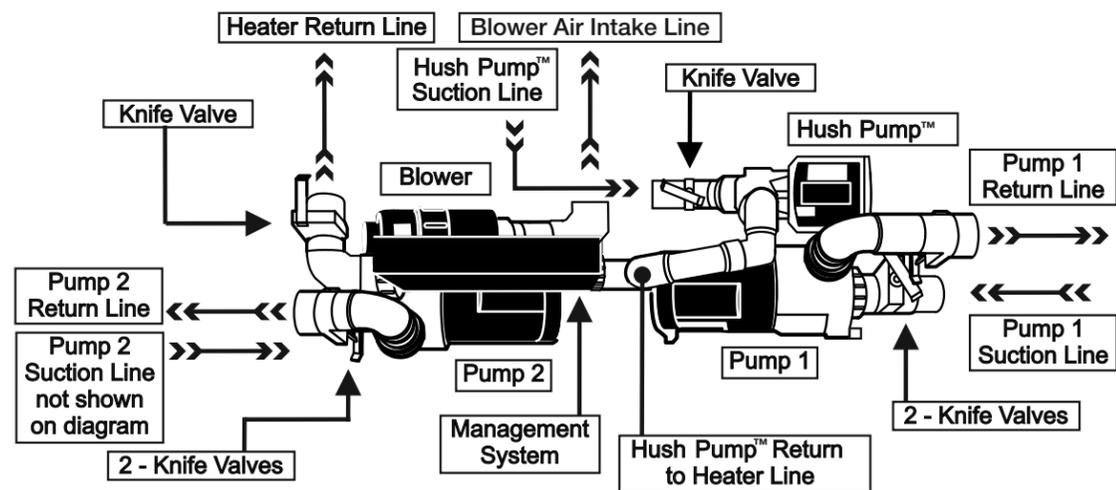
# LEEP Portable Equipment Configuration Diagrams

Use these diagrams for component location on all Beachcomber LEEP Portable models. See Beachcomber Hot Tub Specifications and Details on page 36 for Electrical Requirements.

## Original LEEP Portable Hot Tub, 2 Speed Pump Version



## Original LEEP Portable Hot Tub, Hush Pump™ & Turbo Version

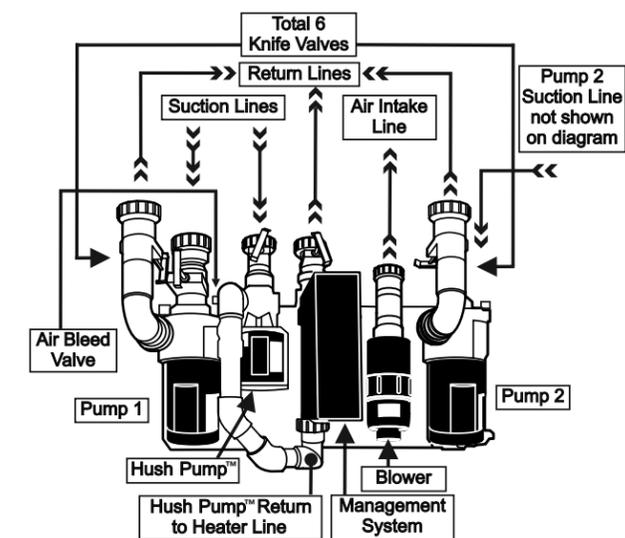


Please Note: Your hot tub may or may not be equipped with features shown in this Owner's Guide. Beachcomber makes continual changes, upgrades and improvements; if you need more specific information on your hot tub, please call your local Beachcomber store, or use the contact information in this guide.

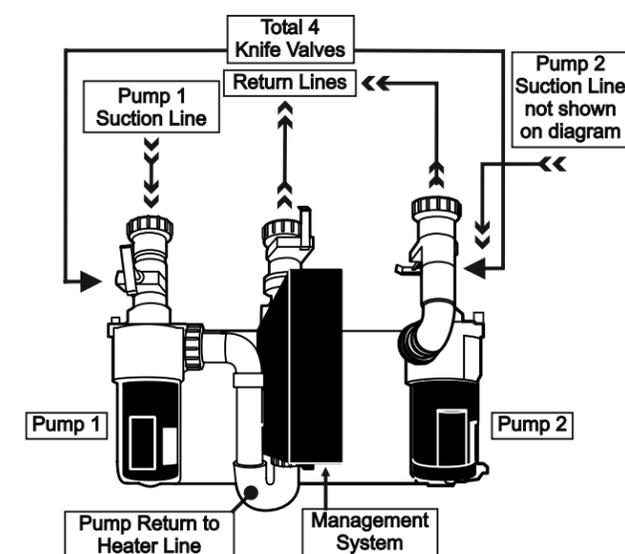
# Hybrid3 Edition Equipment Configuration Diagrams

Use these diagrams for component location on all Beachcomber Hybrid3 Edition models. See Beachcomber Hot Tub Specifications and Details on page 36 for Electrical Requirements.

## Hybrid3 Edition Hot Tub, Hush Pump™ & Turbo Version



## Hybrid3 Edition Hot Tub, 2 Speed Pump Version



Please Note: Your hot tub may or may not be equipped with features shown in this Owner's Guide. Beachcomber makes continual changes, upgrades and improvements; if you need more specific information on your hot tub, please call your local Beachcomber store, or use the contact information in this guide.

# 700 Series (Europe Only) ET-7 Topside Control Panel Operating Instructions



## Start Up

When your hot tub is first activated, it will go into priming mode (after displaying some configuration information). The priming mode will last up to 4 minutes; then circulation will start, then heat icon will come on for 6 seconds, and then flicker for 90 seconds. Then heater will come on to heat water to set temperature. It is recommended that priming mode be allowed to finish, preventing any pumps from operating dry. If you are positive all pumps are primed you can exit priming mode early by pressing or .

## Temperature Adjustment

Temp range is: 80°F - 104°F / 26.0°C – 40.0°C The factory pre-set temperature is set at 100°F / 37.5°C. The last measured temperature is constantly displayed on the LCD. See edit menu in Owner's Guide to select F° or C°. Note: On non Hush Pump hot tubs, the current water temperature will only be displayed if the 2 speed filter pump has been running for two minutes.

## Warm / Cool

Press the or button twice to display the set temperature. Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After three seconds, the LCD will automatically display the last measured water temperature.

## Heating Modes

To change to the desired heating mode, press to enter mode programming, press to cycle through to desired mode (LCD flashes until confirmed), then press to confirm selection.

There are 3 Heating Modes – Standard, Economy and Sleep Modes.

**Standard Mode** maintains the set temperature at all times. Note that the last measured hot tub temperature displayed is current only when the pump has been running for at least 2 minutes. The STANDARD icon will display until the mode is changed.

**Economy Mode** heats the hot tub to the set temperature only during filter cycles. The ECONOMY icon will display until mode is changed. Pressing while in Economy mode puts the hot

tub in Standard-In-Economy mode, which operates the same as Standard Mode, then reverts to Economy Mode automatically after 1 hour. Use this mode to activate the heater if using the hot tub when not in filter cycle. During this time, a press of the button will revert to Economy Mode immediately.

**Sleep Mode** heats the hot tub within 20°F / 11°C of the set temperature only during filter cycles. The SLEEP icon will display until mode is changed. Use this mode when going on holidays.

## Massage 1

Press button once to turn pump 1 on to low speed, press again for the pump's high speed, and once more to turn off the pump. Low speed turns off automatically after 2 hours and high speed turns off automatically after 15 minutes. Massage pump 1 comes on for a 1 minute purge at the start of each filter cycle.

## Massage 2

Press button once to turn pump 2 on to low speed, press again for the pump's high speed, and once more to turn off the pump. Low speed and high speed turn off automatically after 15 minutes. Massage pump 2 comes on for a 1 minute purge at the start of each filter cycle.

## Turbo (optional)

Press the button to turn Turbo on and off. Turbo will automatically turn off after 15 minutes. Turbo comes on for a 10 second purge at the start of each filter cycle.

## Light

Press the button to turn the hot tub light on, press again to turn off. Light will automatically turn off after 3 hours.

## Standby Mode

Pressing or followed by will turn off all hot tub functions temporarily. *SbY* will appear on your display. This is helpful when changing a Microfilter cartridge. Press any button to exit standby mode. Note: If hot tub is in a heat cycle when standby is selected the 2 speed pump or Hush Pump will run for approximately 15 seconds.

## Time of Day and Filter Cycles Setting

On all systems, the 2 speed filter pump or Hush Pump and ozone generator will run during filtration. There are two filter cycles per day. The start/end times of each cycle are programmable. Programming filter times on Hush Pump equipped hot tubs are used to tell the system how many hours a day to turn the heater on when in Economy mode.

To Program:

1. Press then .
2. Use the and buttons to adjust the time of day in hours, press the again to adjust the time in minutes. Use the and buttons to adjust the minutes. Press to enter new time.
3. You will see PROGRAM, FILTER 1 (F1), START TIME appears on the display. Press or to choose the filter start time hour. Enter the hour by pressing .
4. Press or to choose the filter start time minutes. Each press will change the start time by 5 minutes. Enter the minutes by pressing .
5. Press to see the PROGRAM, FILTER 1(F1), end TIME. Adjust the time as done above.
6. Press to see the PROGRAM, FILTER 2(F2), START TIME. Proceed as above.
7. Press to see PROGRAM, FILTER 2(F2), end TIME. Adjust the time as done above.
8. The time that now appears allows you to turn your hot tub light on automatically. Adjust time as done above.
9. Program the time you want your light to turn off.
10. Press will enter the new filter cycle times into the system and display the current water temperature.

## Panel Inversion

Press the or button, followed by the or button to change the numbers in the display to read upside down. Press the same sequence to set back.

## Locking The Panel

Press , then within 3 seconds. When locked, the PL indicator light will light up. All buttons are frozen except the button. To unlock the panel, press , then .

## Locking the Set Temperature

Press or then , and within 3 seconds to activate the lock. The TL indicator light will light up when temperature is locked. To unlock the set temperature, press or then , and .

## Periodic Reminder Messages

(press the button to reset a displayed reminder message)

*rPH*: Test and adjust pH chemical levels as per Beachcomber instructions. Reminder is every 7 days.

*rCL*: Remove, clean, and reinstall Microfilter as per Beachcomber instructions. Reminder is every 30 days.

*rEG*: Test & reset GFCI as per Beachcomber instructions. Reminder is every 30 days.

*rdr*: Drain and refill hot tub as per Beachcomber instructions. Reminder is every 90 days.

*rCD*: Clean and condition Heatshield as per Beachcomber instructions. Reminder is every 180 days.

*rCH*: Install new Microfilter. Reminder is every 365 days.

To suppress reminders, refer to the user edit menu.

## Diagnostic Display Messages

*DHH* or *DHS*: Overheat-DO NOT ENTER HOT TUB

*ICE*: Potential Freeze

*SnA*: Hot tub is shut down

*SnB*: Hot tub is shut down

*SnS*: Sensor out of balance

*HFL*: Could indicate flow problem

*LF*: Persistent low flow problems

*dr*: Inadequate water detected

*drY*: Inadequate water detected

*Pr*: Hot tub in priming mode

-- : Temperature unknown

-: Temperature not current or in Economy or Sleep mode.

PLEASE REFER TO TROUBLE SHOOTING GUIDE FOR A COMPLETE EXPLANATION OF DIAGNOSTIC MESSAGES.

## USER EDIT MENU

This feature is available on 700 Series hot tubs that have the Energy Saver Management System remote installed. There are three selections in the User Edit Menu:

1. Suppress Reminders: This SST2 system will display a number of reminders prompting you to perform certain maintenance tasks. If you do not want these reminders to be displayed, you can suppress them.

2. Temperature Display: You can change your temperature display from Fahrenheit to Celsius.

3. Time Display: You can change the time clock display from the 12 hour am/pm to a 24 hour time clock.

### ACCESSING THE USER EDIT MENU

Press the then , then , *USr* will be displayed. Then press to display *Sr.n* (Suppress reminders). To suppress press again to make the n flash. Press to change the n to a Y and then press to confirm, then button twice to exit. Reminders will now be removed.

If you want to change the temp display from Fahrenheit to Celsius use the same procedure as above to get to *Sr.n* but then press to go to *tc.n* then to make the n flash, to change the n to Y and then to confirm.

If you want to change the time display from am/pm to 24 use the same procedures as above to get to *Sr.n* and then press twice to get to *24.n* then press to get the n to flash, press to change the n to Y and then to confirm then twice to exit.

### WARNING

SHOCK HAZARD! NO USER SERVICEABLE PARTS. DO NOT ATTEMPT SERVICE OF THIS CONTROL. CONTACT YOUR RETAIL STORE OR SERVICE PROVIDER FOR ASSISTANCE. FOLLOW ALL OWNER'S GUIDE POWER CONNECTION INSTRUCTIONS. INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN AND ALL GROUNDING CONNECTIONS MUST BE PROPERLY INSTALLED.

ALWAYS TEST WATER TEMPERATURE PRIOR TO ENTRY USING THE TOPSIDE CONTROL PAD. ENSURE COMFORT BY ALSO CHECKING WATER WITH AN ACCURATE THERMOMETER.

TAMPERING WITH OR MODIFYING THIS EQUIPMENT MAY VOID YOUR GUARANTEE.

# 700 Series ET-70 Topside Control Panel Operating Instructions



### Start Up

Before turning on the power make sure you have read the Start Up instructions on page 9. When your hot tub power is first turned on it will display a series of numbers identifying the software version and the voltage input. It will then go into a 4 minute priming mode indicated by a *Pr* on the LCD display. During priming mode the Hush Pump will circulate the water through the filter and heating system to allow the temperature to be read. If your tub is not Hush Pump equipped the jet pump will not turn on until the prime mode times out or the button is pressed to time out early. During prime mode the jet pumps can be turned on to make sure they are fully primed and moving water in the tub. Do not allow an unprimed jet pump to run for more than 10 seconds. If the fill water temperature is below 44°F / 7°C freeze protection will activate all pumps immediately. While the circulation pump is running the display will show a -- °F indicating current temperature is not known. This will take two minutes. Once temperature is known it will be displayed on the LCD.

### Temperature Adjustment

The temperature range is 80°F - 104°F / 26°C - 40°C. The default is 100°F/37.5°C. Any temp changes are saved in the system memory if power is interrupted. Use the button to increase and the button to lower the set points. After showing set temp the LCD will revert back to current water temp.

Note: if set temp is lowered more than 3°F / 1.5°C below current water temp the Hush Pump™ will stop. The circulation will restart every 30 minutes to check if water temp has come down to set temp. It will also run continually during programmed times.

### Heating Modes

To change to the desired heating mode, press or followed by . Repeat these button presses to cycle through each heating mode.

There are 3 Heating Modes – Standard, Economy and Sleep Modes.

**Std – Standard Mode:** (Default mode) In Standard Mode the water is always heated to the set temperature. The display will show the

current temperature and the word STANDARD.

**EcN – Economy Mode:** In Economy Mode the water is heated only during the filter cycle times. Default times are 8:00 am to 10:00 am for cycle 1 and 8:00 pm to 10:00 pm for cycle 2. If using economy you may need to alter these times to make sure the water is at your desired temp during your usual tub use times. The display will alternate between *EcN* and the current temperature and display the word ECONOMY.

**SLP – Sleep Mode:** In Sleep Mode the water is only heated to within 20°F / 11°C of your set point and the heater only comes on during the programmed filter cycle times. This mode is typically only used for vacation time. The display will alternate between the current temperature and *SLP*.

### Massage 1

To activate this jet pump press the button once to activate low speed, The icon will flash off and on, on the LCD display. Press again to activate high speed and the icon will become solid on the display. Press a third time to turn the pump off. The low speed will turn off automatically after 4 hours and the high speed will turn off after 15 minutes.

Note: If the hot tub is Hush Pump equipped, the low speed of Massage 1 will come on automatically for 1 minute at the start of each filter cycle to purge the plumbing lines. If the purge time is not at the time of day you want, change the filter times.

### Massage 2

To activate this jet pump press the button once to activate low speed, The icon will flash off and on, on the LCD display. Press again to activate high speed and the icon will become solid on the display. Press a third time to turn the pump off. The low speed and the high speed will turn off automatically after 15 minutes.

Note: If the hot tub is Hush Pump equipped, the low speed of Massage 2 will come on automatically for 1 minute at the start of each filter cycle to purge the plumbing lines. If the purge time is not at the time of day you want, change the filter times.

## Turbo (optional)

To activate, press the **X** button once to turn on and again to turn off. The Turbo will turn off automatically after 15 minutes. The Turbo will come on automatically for 30 seconds at the start of each filter cycle to purge the Turbo plumbing. If the purge time is not at the time of day you want change the filter times.

## Light

To activate, press the **☀** button once to turn on and again to turn off. The light will automatically turn off after 4 hours. If your tub has an EverLite 6 or any additional lighting features see the instructions in this Owner's Guide.

## Standby Mode

The Standby feature is used primarily to temporarily shut the circulation pump off before removing the Microfilter for cleaning or replacement. This prevents debris or objects from entering the circulation pump while the skimmer basket and filter are out. Standby can also be used if you want to have total quiet while using the hot tub; however, during this time the hot tub will not heat. Use the instructions below to put your hot tub into Standby. Please note: Do not use Standby to drain and refill your hot tub. Always shut off power at the main breaker before draining your hot tub to prevent damage to the hot tub equipment.

Press **⏸** then **X** to put the tub into Standby; display will show sby. Press any button to take the hot tub out of standby.

## Setting the Time

To set time to your local time press **⌚**, then the **⊕** and Set Time appears. Press **⏸** to advance the time or the **⏪** to back up the time. The time will quickly advance, 5 seconds after pressing **⏸** or **⏪**. Use the same button to stop the clock at the desired time.

## Setting Filter Cycles

Filter cycles come preset from the factory. For hot tubs without the Hush option, filter cycles are default to run two hours each time, twice a day. For hot tubs with the Hush option, filter cycles are default to 24 hours.

Filter cycle duration and frequency are adjustable and can be changed by following the instructions below.

Once time of day is set press the **⊕** button to set start time of Filter cycle 1. If your hot tub is Hush Pump equipped, changing filter cycles does not affect the time the pump runs. It tells the system when to turn on the heater if you are using the Economy heat setting. If your tub is non Hush Pump, changing the cycle time tells the two-speed pump 1 when to operate for a filter cycle. Avoid programming a long filter cycle that runs during the day time hours in hot summer weather as it could cause the water to overheat. Use the **⏸** or **⏪** buttons to advance or backup the Filter 1 start time. Press the same button to stop the time once you reach the desired start time. Press the **⊕** button to advance to the Filter 1 stop time and use the same procedure as above to adjust. Press the **⊕** again to select Filter 2 start time then use the same procedure as above to adjust, then press **⊕** to select Filter 2 stop time and once set, press **⊕** to exit the menu.

Make sure you do not program the cycles to overlap the start or stop time of either cycle. Any changes to filter cycles and time are stored in the system memory and will be retained in the event of a power outage.

## Locking The Panel

This feature might be used if you do not want anyone to operate the tub in your absence. To lock the panel press, **⏸**, then **⏪** then **⏸** within three seconds. A pad lock icon will appear on the LCD. To unlock press **⏸** then **⏪** then **⏸** 1, then **⏸** within three seconds.

## Locking the Set Temperature

This feature might be used to prevent other tub users such as children from adjusting the tub set temperature. To lock the set temperature press, **⏸** then **⏪** then **⏸** 1 then **⏸** within 3 seconds. To unlock press **⏸** then **⏪** then **⏸** 1 then **⏸** within 3 seconds.

## Diagnostic Display Messages

If nothing appears on the display screen, power to the Hot Tub is off.

-°F	Current temperature not known
OHH	Possible overheated heater: do not enter Hot Tub
OHS	Possible overheated Hot Tub: do not enter Hot Tub
SnR	Sensor problem
Snb	Sensor problem
SnS	Sensors out of balance
HFL	Possible flow through heater problem
LF	Confirmed flow through heater problem
dr	Possible dry heater problem
drY	Confirmed dry heater problem
ICE	Freeze condition sensed
StbY	Tub is in standby

PLEASE REFER TO TROUBLE SHOOTING GUIDE FOR A COMPLETE EXPLANATION OF DIAGNOSTIC MESSAGES.

## WARNING

SHOCK HAZARD! NO USER SERVICEABLE PARTS. DO NOT ATTEMPT SERVICE OF THIS CONTROL. CONTACT YOUR RETAIL STORE OR SERVICE PROVIDER FOR ASSISTANCE. FOLLOW ALL OWNER'S GUIDE POWER CONNECTION INSTRUCTIONS. INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN AND ALL GROUNDING CONNECTIONS MUST BE PROPERLY INSTALLED.

ALWAYS TEST WATER TEMPERATURE PRIOR TO ENTRY USING THE TOPSIDE CONTROL PAD. ENSURE COMFORT BY ALSO CHECKING WATER WITH AN ACCURATE THERMOMETER.

TAMPERING WITH OR MODIFYING THIS EQUIPMENT MAY VOID YOUR GUARANTEE.

# 500 Series ET-55 Topside Control Panel Operating Instructions



## Start Up

Before turning on the power, make sure you have read the Start Up instructions on page 9. When your hot tub power is first turned on it will display a series of numbers identifying the software version and the voltage input. It will then go into a 4 minute priming mode indicated by a *Pr* on the LCD display. During priming mode the Hush Pump will circulate the water through the filter and heating system to allow the temperature to be read. If your hot tub is not Hush Pump equipped, the jet pump will not turn on until the prime mode times out or the **⏸** button is pressed to time out early. During prime mode the jet pump can be turned on to make sure they are fully primed and moving water in the hot tub. Do not allow an unprimed jet pump to run for more than 10 seconds. If the fill water temperature is below 44°F / 7°C freeze protection will activate all pumps immediately. While the circulation pump is running the display will show a -- indicating current temperature is not known. This will take two minutes. Once temperature is known it will be displayed on the LCD.

## Temperature Adjustment

The temperature range is 80°F - 104°F / 26.0°C - 40.0°C. The default is 100°F/37.5°C. Any temp changes are saved in the system memory if power is interrupted. Press the **⏸** button to increase or lower the set points. If the **⏸** is pressed the set point will flash. Each press will move the set point 1 degree. If the set point is moving the wrong direction then stop pressing, let the temperature display stop flashing, then press again to move the set point in the other direction. After adjusting the set temp, the LCD will revert back to the current water temperature.

Note: if set temp is lowered more than 3°F / 1.5°C below current water temp, the Hush Pump will stop. The circulation will restart every 30 minutes to check if water temp has come down to set temp. It will also run continually during programmed times.

## Heating Modes

To change to the desired heating mode, press the **⏸** button then the **☀** button.

There are 3 Heating Modes – Standard, Economy and Sleep Modes.

**St – Standard Mode:** (Default mode) In Standard Mode the water is always heated to the set temperature. The display will show the temperature always with Hush Pump equipped systems. If non Hush Pump, current water temperature will be shown when the pump is running and when pump is not running. If your hot tub is not equipped with a Hush Pump, the 2 speed pump will come on every 30 minutes outside of filter cycles to poll for current water temperature. If you do not want this to happen, use the Economy mode below.

**Ec – Economy Mode:** In Economy Mode the water is heated only during the filter cycle times. The factory default is F4 (4 hours), 2C (twice a day) for Hybrid3 hot tubs and F2 (2 Hours), 2C (twice a day) for LEEP hot tubs. If using the Economy mode, you may need to alter these times to make sure the water is your desired temperature during your usual hot tub usage times. The first filter cycle starts 6 minutes after power is turned on. The display will alternate between the current temperature and *Ec*.

**SL – Sleep Mode:** In Sleep Mode the water is only heated to within 20°F / 11°C of your set point and the heater only comes on during the programmed filter cycle times. This mode is typically only used for vacation time. The display will alternate between the current temperature and *SL*.

## Massage

To activate this jet pump, press the **☀** button once to activate low speed, twice to activate high speed and three times to turn the pump off. The low speed will turn off automatically after 4 hours and the high speed will turn off after 15 minutes. If the hot tub is Hush Pump equipped, the low speed of the jet pump will come on automatically for 1 minute at the start of each filter cycle to purge the plumbing lines.

## Turbo (optional)

To activate this press the **X** button once to turn on and twice to turn off. The Turbo will turn off automatically after 15 minutes. The Turbo will come on automatically for 30 seconds at the start of each filter cycle to purge the Turbo plumbing.

## Light

To activate this press the  button once to turn on and again to turn off. The light will automatically turn off after 4 hours. If your tub has an EverLite 6 or any additional lighting features see the instructions on page 23 of this manual.

### Standby Mode

The Standby feature is used primarily to temporarily shut the circulation pump off before removing the Microfilter for cleaning or replacement. This prevents debris or objects from entering the circulation pump while the skimmer basket and filter are out. Standby can also be used if you want to have total quiet while using the hot tub; however, during this time the hot tub will not heat. Use the instructions below to put your hot tub into Standby. Please note: Do not use Standby to drain and refill your hot tub. Always shut off power at the main breaker before draining your hot tub to prevent damage to the hot tub equipment.

Press  then  to put the tub into Standby; display will show 5Y. Press any button to take the hot tub out of standby.

### Setting Filter Cycles

Filter cycles come preset from the factory. For hot tubs without the Hush option, filter cycles are default to run two hours each time, twice a day. For hot tubs with the Hush option, filter cycles are default to 24 hours.

Filter cycle duration and frequency are adjustable and can be changed by following the instructions below.

Press the  then press  to bring up F2 keep pressing  to select F4, F6, F8, FC (12 hours). Then press  to bring up 2C (two cycles per day). If you want to change press  to select 1d (day cycle) and again to select 1n (night cycle). Press  to exit programming.

Note: If your tub is Hush Pump equipped the Filter Cycles settings only affect the times the heater will be able to operate when using the Economy heating Mode

### Diagnostic Display Messages

If nothing appears on the display screen, power to the Hot Tub is off.

- Current temperature not known
- HH Possible overheated heater: do not enter Hot Tub
- HS Possible overheated Hot Tub: do not enter Hot Tub
- SR Sensor problem
- SB Sensor problem
- SN Sensors out of balance
- HL Possible flow through heater problem
- LF Confirmed flow through heater problem

- dr Possible dry heater problem
- dY Confirmed dry heater problem
- IC Freeze condition sensed
- SY Tub is in standby.

PLEASE REFER TO TROUBLE SHOOTING GUIDE FOR A COMPLETE EXPLANATION OF DIAGNOSTIC MESSAGES.

### WARNING

SHOCK HAZARD! NO USER SERVICEABLE PARTS. DO NOT ATTEMPT SERVICE OF THIS CONTROL. CONTACT YOUR RETAIL STORE OR SERVICE PROVIDER FOR ASSISTANCE. FOLLOW ALL OWNER'S GUIDE POWER CONNECTION INSTRUCTIONS. INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN AND ALL GROUNDING CONNECTIONS MUST BE PROPERLY INSTALLED.

ALWAYS TEST WATER TEMPERATURE PRIOR TO ENTRY USING THE TOPSIDE CONTROL PAD. ENSURE COMFORT BY ALSO CHECKING WATER WITH AN ACCURATE THERMOMETER.

TAMPERING WITH OR MODIFYING THIS EQUIPMENT MAY VOID YOUR GUARANTEE.

# 300 Series ET-50 Topside Control Panel Operating Instructions



### Start Up

Before turning on the power, make sure you have read the Start Up instructions on page 9. When your hot tub power is first turned on it will display a series of numbers identifying the software version and the voltage input. It will then go into a 4 minute priming mode indicated by a *Pr* on the LCD display. During priming mode the Hush Pump will circulate the water through the filter and heating system to allow the temperature to be read. If your hot tub is not Hush Pump equipped, the jet pump will not turn on until the prime mode times out or the  button is pressed to time out early. During prime mode the jet pump can be turned on to make sure they are fully primed and moving water in the hot tub. Do not allow an unprimed jet pump to run for more than 10 seconds. If the fill water temperature is below 44°F / 7°C freeze protection will activate all pumps immediately. While the circulation pump is running the display will show a -- indicating current temperature is not known. This will take two minutes. Once temperature is known it will be displayed on the LCD.

### Temperature Adjustment

The temperature range is 80°F - 104°F / 26°C - 40°C. The default is 100°F / 37.5°C. Any temp changes are saved in the system memory if power is interrupted. Press the  button to increase or lower the set points. Press the  button to increase or lower the set points. If the  is pressed the set point will flash. Each press will move the set point 1 degree. If the set point is moving the wrong direction then stop pressing, let the temperature display stop flashing, then press again to move the set point in the other direction. After adjusting the set temp, the LCD will revert back to the current water temperature.

Note: if set temp is lowered more than 3°F / 1.5°C below current water temp, the Hush Pump will stop. The circulation will restart every 30 minutes to check if water temp has come down to set temp. It will also run continually during programmed times.

### Heating Modes

To change to the desired heating mode, press the  button then the  button.

There are 3 Heating Modes – Standard, Economy and Sleep Modes.

**5L – Standard Mode:** (Default mode) In Standard Mode the water is always heated to the set temperature. The display will show the temperature always with Hush Pump equipped systems. If non Hush Pump, current water temperature will be shown when the pump is running and when pump is not running. If your hot tub is not equipped with a Hush Pump, the 2 speed pump will come on every 30 minutes outside of filter cycles to poll for current water temperature. If you do not want this to happen, use the Economy mode below.

**Ec – Economy Mode:** In Economy Mode the water is heated only during the filter cycle times. The factory default is F4 (4 hours), 2C (twice a day) for Hybrid3 hot tubs and F2 (2 Hours), 2C (twice a day) for LEEP hot tubs. If using the Economy mode, you may need to alter these times to make sure the water is your desired temperature during your usual hot tub usage times. The first filter cycle starts 6 minutes after power is turned on. The display will alternate between the current temperature and Ec.

**5L – Sleep Mode:** In Sleep Mode the water is only heated to within 20°F / 11°C of your set point and the heater only comes on during the programmed filter cycle times. This mode is typically only used for vacation time. The display will alternate between the current temperature and 5L.

### Massage

To activate this jet pump, press the  button once to activate low speed, twice to activate high speed and three times to turn the pump off. The low speed will turn off automatically after 4 hours and the high speed will turn off after 15 minutes. If the hot tub is Hush Pump equipped, the low speed of the jet pump will come on automatically for 1 minute at the start of each filter cycle to purge the plumbing lines.

Note: If the hot tub is Hush Pump equipped, the low speed of Massage 1 will come on automatically for 1 minute at the start of each filter cycle to purge the plumbing lines. If the purge time is not at the time of day you want, change the filter times.

### Turbo (optional)

To activate this press the  button once to turn on and twice to turn off. The Turbo will turn off automatically after 15 minutes.

The Turbo will come on automatically for 30 seconds at the start of each filter cycle to purge the Turbo plumbing.

### Light

To activate this press the  button once to turn on and again to turn off. The light will automatically turn off after 4 hours. If your tub has an EverLite 6 or any additional lighting features see the instructions on page 23 of this manual.

### Standby Mode

The Standby feature is used primarily to temporarily shut the circulation pump off before removing the Microfilter for cleaning or replacement. This prevents debris or objects from entering the circulation pump while the skimmer basket and filter are out. Standby can also be used if you want to have total quiet while using the hot tub; however, during this time the hot tub will not heat. Use the instructions below to put your hot tub into Standby. Please note: Do not use Standby to drain and refill your hot tub. Always shut off power at the main breaker before draining your hot tub to prevent damage to the hot tub equipment.

Press  then  to put the tub into Standby. Display will show *S<sub>Y</sub>*. Press any button to take the hot tub out of standby.

### Setting Filter Cycles

Filter cycles come preset from the factory. For hot tubs without the Hush option, filter cycles are default to run two hours each time, twice a day. For hot tubs with the Hush option, filter cycles are default to 24 hours.

Filter cycle duration and frequency are adjustable and can be changed by following the instructions below.

Press the  then press  to bring up F2 keep pressing  to select F4, F6, F8, FC (12 hours). Then press  to bring up 2C (two cycles per day). If you want to change press  to select 1d (day cycle which will start 6 minutes after turning power off and back on) and again to select 1n (night cycle which starts 12 hours after turning power off and back on.). Press  to exit programming.

Note: If your tub is Hush Pump equipped the Filter Cycles settings only affect the times the heater will be able to operate when using the Economy heating Mode

### Diagnostic Display Messages

If nothing appears on the display screen, power to the Hot Tub is off.

- Current temperature not known
- HH* Possible overheated heater: do not enter Hot Tub
- HS* Possible overheated Hot Tub: do not enter Hot Tub
- SA* Sensor problem
- Sb* Sensor problem

- Sn* Sensors out of balance
- HL* Possible flow through heater problem
- LF* Confirmed flow through heater problem
- dr* Possible dry heater problem
- dY* Confirmed dry heater problem
- IC* Freeze condition sensed
- S<sub>Y</sub>* Tub is in Standby

PLEASE REFER TO TROUBLE SHOOTING GUIDE FOR A COMPLETE EXPLANATION OF DIAGNOSTIC MESSAGES.

### WARNING

SHOCK HAZARD! NO USER SERVICEABLE PARTS. DO NOT ATTEMPT SERVICE OF THIS CONTROL. CONTACT YOUR RETAIL STORE OR SERVICE PROVIDER FOR ASSISTANCE. FOLLOW ALL OWNER'S GUIDE POWER CONNECTION INSTRUCTIONS. INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN AND ALL GROUNDING CONNECTIONS MUST BE PROPERLY INSTALLED.

ALWAYS TEST WATER TEMPERATURE PRIOR TO ENTRY USING THE TOPSIDE CONTROL PAD. ENSURE COMFORT BY ALSO CHECKING WATER WITH AN ACCURATE THERMOMETER.

TAMPERING WITH OR MODIFYING THIS EQUIPMENT MAY VOID YOUR GUARANTEE.

# Operation of Hot Tub Features



FlexJet Inserts

### FlexJet Inserts

The jets in a Beachcomber Hot Tub are known as FlexJets and are available in four sizes; small, medium, large and extra large. They are interchangeable within the same sizes. Simply turn them counter-clockwise to unscrew. To reinstall, turn the jet insert clockwise to screw them back in. The jets can also be individually turned off or on by turning the jet face. Turning it clockwise will turn off the water flow and counter-clockwise turns on the water flow. To turn on the neck jet, twist the jet face counter-clockwise; to turn off, twist it clockwise. If this jet does not turn off, contact your local dealer for more information.



RFM Diverter Valve

### Reflex Foot Massage (RFM) Diverter Valve

This top side valve diverts water flow between either the RFM foot jets or the seat jets. On 700 series hot tubs it diverts water flow from massage 2 pump between the RFM foot jets or the seat jets on the left side of the hot tub. Always turn the pump to low speed or off before attempting to turn the RFM Diverter Valve. Failure to do this could cause the handle to break due to the high velocity of water moving through the valve. NOTE: When the hot tub is not being used, the diverter valve handle must be left in the center position. This ensures that water in both zones is always in circulation during periods of non use.



Air Control Valves

### Air Control Valves

There are two air control valves located on either side of the touch pad, as shown. These air controls improve the massage experience in your hot tub by adding more turbulence to the water flow. To turn on the air, turn the knob counter-clockwise. On all models, more air is drawn in when the jet pump is on high speed than when the pump is on low speed. On 300, and 500 series hot tubs, the left air control services all the seat jets. If equipped with the Reflex Foot Massage (RFM) option, the right air control services the RFM jets (or footwell jets on non-RFM equipped models) when the water flow is diverted to them, and the left air control services all the seat jets. On 700 series hot tubs, the left air control allows air flow to jets running off Massage Pump 1. The right air control allows air flow to jets running off Massage Pump 2. The right air control would also allow air flow to the RFM jets if the diverter valve is diverting water flow from Massage Pump 2 to the RFM jets.



QSS System

### Quintessential Surround Sound (QSS) System

To operate the optional Quintessential Surround Sound System shown, lift up the front cover located on the outside of the Enviroskirt Cabinet and connect your smart phone or music device via Bluetooth (see manual for details), or Aux. In wired connection.



EverLite LED Lighting

### Hot Tub Underwater Lighting

All Beachcomber Hot Tubs come standard with either a 12 volt incandescent light or a digital EverLite™ LED light. Refer to EverLite™ Instructions on page 23. Your local Beachcomber store is best equipped to replace either unit. Drain the hot tub and locate the lens removal tool included with the hot tub. Carefully unscrew the light lens. Carefully pull out the light unit and replace with a new one, available from your local Beachcomber store. Screw the lens back in until tight, but do not over tighten.



Roman Arch Waterfall

### Roman Arch Waterfall

Hot tubs equipped with the optional Roman Arches Waterfall feature shown above, will have a topside control valve to increase or decrease the water flow to the Waterfall. The Waterfall feature receives its flow from the Hush Pump. If your hot tub is equipped with the Eclipse Lighting Feature, the Waterfall will also be backlit. NOTE: The control valve must be partially left open when the hot tub is not in use. If the water is not operating at normal flow, remove the front covers by turning them clockwise a 1/4 turn, remove the internal nozzle and rinse off debris.



Turbo

### Turbo

The optional Turbo increases the amount of air turbulence that comes out of the jets. It enhances massage pressure, turbulence and water action. With the Turbo activated and air controls closed, air from the Turbo will come out of the 4 relief jets found in the foot well of the hot tub.



Ozone

### Ozone

Your hot tub may be factory equipped with an optional Ozonator unit, or factory pre-plumbed to accept the installation of an Ozonator. Ozonators produce a powerful gas, and injects it into the hot tub water to oxidize organic contaminants in the water and improve water clarity. Please note: an Ozonator is not designed to replace your main sanitizer or disinfectant system. The Ozonator is equipped with a small viewing window. When ozone gas is produced, a purple glow will be emitted and is best seen at night through this window. This purple glow diminishes over time as the chip wears out. When no purple glow is seen during filtration cycles (not heating cycles), this is an indication that the chip requires replacement. The chip is rated at 9000 hours (one year).

### WARNING

NO USER SERVICEABLE PARTS. DO NOT ATTEMPT TO SERVICE AN OZONATOR OR ANY OTHER PART OF YOUR BEACHCOMBER HOT TUB EQUIPMENT PAK. CONTACT YOUR LOCAL STORE FOR SERVICE AND/OR REPLACEMENT.

THE USE OF AN OZONATOR IS NOT A REPLACEMENT FOR A WATER SANITIZING PROGRAM. FAILURE TO PROPERLY SANITIZE HOT TUB WATER CAN CAUSE IRRITATION AND/OR DISEASE.



ClearTech UVC System

### ClearTech UVC Water Care System

Your hot tub may be equipped with ClearTech. This unit uses a specialized ultra violet light bulb which produces UV light. The ClearTech UVC unit reduces the amount of sanitizer that is required to maintain a government approved sanitizer level. The UV bulb is rated at 15,000 hours. The glass sleeve covering the bulb should be inspected and cleaned (if necessary) at each drain and fill. For service or replacement, consult your Beachcomber store.

### WARNING

NO USER SERVICEABLE PARTS. DO NOT ATTEMPT TO SERVICE A CLARETECH UV UNIT OR ANY OTHER PART OF YOUR BEACHCOMBER HOT TUB EQUIPMENT PAK. CONTACT YOUR LOCAL STORE FOR SERVICE AND/OR REPLACEMENT. DO NOT VIEW THE UV BULB IN OPERATION. UV RAYS CAN CAUSE IRRITATION AND/OR BLINDNESS.

THE USE OF A CLARETECH UV UNIT IS NOT A REPLACEMENT FOR A WATER SANITIZING PROGRAM. FAILURE TO PROPERLY SANITIZE HOT TUB WATER CAN CAUSE IRRITATION AND/OR DISEASE.



Hush Pump

### Hush Pump

The Hush Pump is a very quiet, low energy consumption, high flow circulation and filtration pump that looks after the filter and heating functions of your hot tub. It comes set from the factory to operate 24 hours a day.

## EverLite 4 Operating Instructions

- 1. Beachcomber Mode: The light will sequence from Red, to Green, to Blue continuously.**  
Press the light button once to start the 'Beachcomber Mode'. The light will stay on each solid color for three seconds. The color will blend with the next color for four seconds before the next color becomes a solid. To turn off, press the button once. \*
- 2. Freeze Mode: As it cycles through the 'Beachcomber Mode', the light can be frozen on any solid or blended color.**  
Choose a color, and then touch the button twice (off, then on) within four seconds to switch to 'Freeze Mode'. To turn off, press the button once.
- 3. Pulse Mode: This is a random cycling mode, which imitates the soothing rhythm of a heartbeat.**  
When in the 'Freeze Mode', touch the button twice (off, then on) within four seconds to switch to 'Pulse Mode'. To turn off, press the button once.
- 4. White Mode: This mode recreates natural white light.**  
When in the 'Pulse Mode', touch the button twice (off, then on) within four seconds to switch to 'White Mode'. To turn off, press the button once.

\*Note: If the light is left off for more than ten seconds, it will revert back to 'Beachcomber Mode' when switched back on.

## EverLite 6 Operating Instructions

- 1. Beachcomber Mode A: The light will sequence from Red, to Green, to Blue continuously.**  
Press the light button once to start the 'Beachcomber Mode A'. The light will stay on each solid color for three seconds. The color will blend with the next color for four seconds before the next color becomes a solid. To turn off, press the button once. \*
- 2. Freeze Mode: As it cycles through the 'Beachcomber Mode A', the light can be frozen on any solid or blended color.**  
Choose a color, and then touch the button twice (off, then on) within four seconds to switch to 'Freeze Mode'. To turn off, press button once.
- 3. Pulse Mode: This is a random cycling mode, which imitates the soothing rhythm of a heartbeat.**  
When in the 'Freeze Mode', touch the button twice (off, then on) within four seconds to switch to 'Pulse Mode'. To turn off, press button once.
- 4. White Mode: This mode recreates natural white light.**  
When in the 'Pulse Mode', touch the button twice (off, then on) within four seconds to switch to 'White Mode'. To turn off, press the button once.
- 5. Beachcomber Mode B: All lights above waterline are turned on, while all underwater lights are off.**  
When in the 'White Mode', touch the button twice (off, then on) within four seconds to switch to 'Beachcomber Mode B'. To turn off, press the button once.
- 6. Beachcomber Mode C: All the lights below the waterline are turned on, while all the lights above the water line are off.**  
When in the 'Beachcomber Mode B', touch the button twice (off, then on) within four seconds to switch to 'Beachcomber Mode C'. To turn off, press the button once.

\*Note: If the light is left off for more than ten seconds, it will revert back to 'Beachcomber Mode A' when switched back on.

# IMPORTANT SAFETY INSTRUCTIONS

## READ AND FOLLOW ALL INSTRUCTIONS

### WARNING:

- Do not enter a hot tub without adequate sanitization/disinfection.
- Always follow the label instructions and warnings on Beachcomber water care chemical bottles.
- Prevent unauthorized child access to avoid the risk of drowning.
- When shock treating hot tub water, leave the cover slightly open to allow vapor to escape for 1 hour. High levels of sanitizer damages the underside of the cover, which is not covered by guarantee.
- Do not allow children to use a hot tub without adult supervision.
- Keep potential harmful products out of reach of children at all times.

### General Safety and Handling:

- Reactions could occur that may emit harmful gases. Pouring the chemical into the larger body of water is the proper way to handle application of product to the hot tub.
- Always ensure to add the water care products towards the center of the hot tub, with the circulation system running.
- Never mix water care products with each other.
- Always follow directions from the bottle. Serious injury could occur if label instructions are not followed.
- Do not allow moisture to come in contact inside the bottle with any treatment product.

### Storage and Disposal:

- All products should be stored at room temperature, away from potential flame or spark.
- Do not let products freeze or overheat
- Avoid storing water care products directly on the ground.
- Ensure that there is a door or brace to keep the water care product from falling if stored up on a shelf.
- Government regulations require that bottles be triple rinsed before recycling.

### Emergency Chemical Spill Guidelines:

#### Minor Spill:

In the event of a spill involving the release of a type or quantity of a chemical which does not pose an immediate risk to health and does not involve chemical contamination to the body:

- Isolate the area. Evacuate the immediate area if necessary.
- Control Spread of spill, this may include covering or damming floor drains, and removing ignition sources
- Establish exhaust ventilation. Vent vapors to outside of building only (open windows and doors)
- Refer to Material Safety Data Sheets for cleanup information.
- Locate spill kit. Choose appropriate personal protective equipment (goggles, face shield, impervious, gloves, lab coat, apron, etc.)
- Wet mop spill area. Be sure to decontaminate broom, dustpan, etc.
- Put all contaminated items (gloves, clothing, etc.) into a sealed 5 gallon container or plastic bag.
- Call local authorities for proper waste management control for your area

#### Major Spill:

In the event of a major spill which: 1) involves the release of a type or quantity of a chemical that poses an immediate risk to health; or 2) involves an uncontrolled fire or explosion:

- Evacuate nonessential personnel from the spill area and/or activate the nearest fire alarm.
- Call 911 and give details of the accident including location, types of hazardous materials involved, and whether there is personal injury.
- If the accident involves personal injury or chemical contamination, resort to MSDS First Aid Measures for information due to exposure, ingestion and/or inhalation.

At the same time:

- Attend to injured by moving the victim from the immediate area of fire, explosion, or spill (if this can be done without further injury to the victim or you).
- Locate nearest emergency eyewash or safety shower. Remove any contaminated clothing from the victim and flush all areas of the body contacted by chemicals with copious amounts of water for 15 minutes.
- If feasible without causing harm to yourself control Spread of spill, this may include covering or damming floor drains, and removing ignition sources

## Hot Tub Water Care and Maintenance

### Recommended Parameters & Levels

PARAMETER RANGE	RECOMMENDED LEVEL
Free Chlorine (Canada/USA)	3 – 5 ppm
Bromine (Canada)	3 – 5 ppm
Bromine (USA)	4 – 6 ppm
pH	7.2 – 7.8
Total Alkalinity (TA)	100 – 120 ppm
Calcium Hardness (CH)	150 – 200 ppm
Total Dissolved Solids (TDS)	1500 ppm over start up

### Effects of Unbalanced PH

LOW PH (ACIDIC – BELOW 7.2)	HIGH PH (BASIC – ABOVE 7.8)
Corrosive Water	Scaling Water
Pitting of heater and pump components	Cloudy water
Metals dissolve	Sanitizer inefficiency
Skin/eye irritation	Skin/eye irritation
Damage to patios, railings, concrete	Reduced circulation

- Acidic water can cause pitting of the heater components and damage the equipment.
- Basic water forces the calcium dissolved in the water out of solution, causing cloudy water and scaling.
- The pH also has a dramatic effect on the sanitizer effectiveness in the water. A high pH level results in greatly reduced sanitizer effectiveness, especially in chlorine systems.
- Factors that contributes pH change in a hot tub are: addition of fresh water, rain, bather use/sweat, detergent and oils from bathers, dust, biofilm, leaves and environmental debris, improper testing, drop in alkalinity, carry-out or splash-out, evaporation, chemicals.

## Effects of Unbalanced Calcium Hardness

LOW CALCIUM HARDNESS	HIGH CALCIUM HARDNESS
Aggressive water	Scaling Water
Foam	Cloudy Water
Etching of plaster or concrete	Plugged filters
Odor	Reduced circulation
Damage to patios, railings, concrete	Lowered heater efficiency

- Calcium Hardness is a measure of the amount of calcium present in the water.
- Water that contains high levels of calcium and magnesium salts is called hard water. "Calcium Carbonate" scale may be present in hard water, in the form of white residue on massage inserts, heaters, filters and hot tub controls. If left for longer periods, calcium scale can become hardened and impossible to remove. Due to increased aeration and agitation, calcium deficient water will cause foaming in hot tub water. **Hard water can significantly impair the heating ability of the hot tub heater element and cause increased costs to keep the hot tub to temperature.**
- Water that contains little or no calcium/magnesium is called soft water. Soft Water feels "slippery", and is aggressive and damaging to concrete areas surrounding the hot tub.

## Metals and Minerals

METAL	STAIN COLOR	WATER COLOR
Copper	blue-green to black stain	blue-green or black
Iron	yellowish, red-brown	yellow-brown
Manganese	grey to black stain, violet	coffee-brown

- Dissolved metals have the ability to stain surfaces and discolor water if not properly controlled.
- **Total Dissolved Solids (TDS)** is a measure of accumulated dissolved materials in solution (not suspended particles) in hot tub water.
- As more water care products are added, especially granulars, the TDS level will climb.
- When TDS level reaches 1500 ppm over start up TDS, it may cause clouding, odor, listless water and chemical inefficiency.
- Contributors to TDS levels include: hair, evaporation, sweat and skin particles, lint, fecal matter, environmental debris (leaves, pine needles, dirt etc.), dust, pollen, expectorant (spit), lotions, nasal discharge, cyanuric acid (from stabilized chlorines such as Chlor Blast and Care Free Boost), oils, urine, inert solids from granular products.

## Effects of Unbalanced Total Alkalinity

LOW TOTAL ALKALINITY	HIGH TOTAL ALKALINITY
Corrosive Water	Scaling Water
pH Bounce	pH drifts up
Cloudy water	Cloudy water

- The Total Alkalinity reading is based on the total of alkaline salts in the water. Total Alkalinity is the measure of the ability of water to resist or "buffer" changes in pH. Highly unbalanced water condition will cause damage to heater elements, light rings, stainless steel fittings, dials, heatshields and pump components.

## Common Water Care Issues

SYMPTOM	DIAGNOSIS
Cloudy Water	Factors that affect water to be cloudy: TDS Level, Lack of Sanitizer, High/Low pH, Poor Filtration, Products added to water too close together, Plugged Holiday tender.
Colored Water	Factors that affects colored water: Well water, Copper from equipment and pipes that dissolve into water due to improper water balance.
Skin Irritations	Factors that may cause skin irritation: Improper TA & pH balance, Chloramines, NO Sanitizer level, extended bathing sessions, High TDS level.
Foam	Factors that may cause foaming: Low calcium hardness, bather waste (TS).
Odor	Factors that may cause odor: Combined pH and Chlorine problem.
Scaling	Caused by high pH level.
Scum Lines	Caused by combination of: High TDS, low sanitizer levels, dry filters, plugged or nonfunctional floating dispensers or holiday tenders.
Biofilm (White Algae)	Nature's way to provide bacteria with a suitable coating in which to proliferate and survive even in a harsh environment.

- **Please contact your nearest Beachcomber Hot Tubs Store for free water testing and more information.**

## Filter Care and Maintenance

- Remove once per week and rinse with water.
- Once per month, filter should be cleaned, alternating monthly between Filter Cure and Filter Pure, soaking it for 12-18 hours.
- Rinse filter very well to prevent any residual filter cleaning product entering the hot tub water.
- Always have two filters, one in hot tub and one clean and ready to be installed.
- Advantages of a clean filter include: clean water, better circulation, lower sanitizer, overall better performance.

## Heatshield Care and Maintenance

UL Certified according to the ASTM F1346-91 standards for Hot Tub safety covers.

- Never allow children or pets to sit, play or stand on top of the hot tub cover.
- Please use the handle when lifting the heatshield.
- Use Cover All as part of your regular hot tub maintenance on the hot tub cover as conditioner to protect from sun's damaging rays.
- Use Purezyme #3 to eliminate organic odors and scum that can occur on the underside of the hot tub cover.

**CAUTION:** The hot tub Heatshield cover is strong enough to withstand up to 2 feet of snow. It is not designed to support the weight of children, pets or adults. This extra weight will break the foam inners and lead to premature failure of the heatshield which is not covered under the Beachcomber Guarantee.

# Draining your Beachcomber Hot Tub

Change three to four times a year or more if bather load is high. To calculate the change frequency, use the following formula:

$$\# \text{ Days} = 1/3 (\text{Volume in US Gallons}) \div \text{Max \# of daily bathers}$$

1. Turn power off at the G.F.C.I. breaker or power disconnect switch (do not use the standby feature).
2. Locate the black drain/fill valve, found inside behind the door on a Portable LEEP model or under the step on the Hybrid3 Edition. Remove the safety cap from the fitting threaded into the valve.
3. Attach the female end of your garden hose and place the other end at a level lower than the drain/fill valve to ensure complete draining. To open, turn the outer part of the drain/fill valve counter clockwise to open and start the draining.
4. Draining time will vary from model to model.
5. Once the hot tub is drained and empty, disconnect the garden hose and close the valve if you are not going to fill the hot tub through the valve. If you want to fill through this valve, unscrew the threaded adapter and thread in the male end of a garden hose, then attach the female end to your tap and refill.

## Vacation Instructions

**If you are leaving your hot tub full and running while on vacation for 3-5 days, do the following:**

1. Check and adjust pH level if necessary.
2. Shock-treat the water to raise the sanitizer level. Leave the hot tub Heatshield half open for 1 hour.
3. Lock your Heatshield on the hot tub to maintain a safe environment for pets or children. If you are in a high wind area, install Hurricane Straps (available from your local Beachcomber store) to secure the Heatshield to your hot tub.

**Upon returning do the following:**

1. Check pH and sanitizer level and adjust if necessary.
2. If leaving for 5-14 days and no one can come by to maintain the hot tub, do the following:
3. Put heater in Sleep Mode. Sanitizers may last longer in cooler water.
4. Check and adjust pH and Total Alkalinity level if necessary.
5. Use either a Beachcomber floating tablet dispenser or a Holiday Tender tablet dispenser to automatically dispense either Bromine Disc or MiniDisc in your hot tub water to maintain water disinfection. Use the low setting on these devices as the demand for disinfectant will be low during this time.
6. Lock the Heatshield and attach a Hurricane Strap in high wind areas. Upon returning, put heater back into Standard Mode.

### WARNING

ENSURE AN UNATTENDED HOT TUB HAS A SECURED AND LOCKED HEATSHIELD COVER TO PREVENT UNWANTED ENTRY. BEACHCOMBER HOT TUBS IS NOT RESPONSIBLE FOR DAMAGE CAUSED TO PROPERTY OR PERSON BY HOT TUBS THAT ARE LEFT UNATTENDED FOR PERIODS OF TIME.

### WARNING

BEACHCOMBER HOT TUBS IS NOT RESPONSIBLE FOR NEGLECT DURING FREEZING TEMPERATURES, WHICH IS BEYOND THE CONTROL OF ANY MANUFACTURER. IF POWER IS OUT DURING FREEZING TEMPERATURES, YOU MUST TAKE ACTION TO PROTECT YOUR HOT TUB AND ITS EQUIPMENT, JUST AS YOU WOULD WITH YOUR VEHICLE, OR YOUR HOME AND PROPERTY.

# Winter Operation Information

All Beachcomber Hot Tubs have built in freeze protection for their equipment. If your hot tub is not Hush Pump equipped, the freeze protection will activate the pump(s) on low speed for approximately 2 minutes if a temperature of 44° F / 7° C or below is detected at the heater housing. If your hot tub is Hush Pump equipped, the only time freeze protection will activate is if the hot tub is left in standby mode long enough to allow water at the heater to reach 44° F / 7° C or if your hot tub is filled with water that is 44° F / 7° C or lower.

There is also a small water line that runs from pump to pump that assists in protecting against freezing, by increasing circulation between the pumps.

### Winter Precautions:

If your equipment is not working during freezing temperatures, you should first contact your local Beachcomber store or a local service provider for immediate assistance.

To prevent damage caused by the equipment freezing, place a small space heater or trouble light down by the equipment. Position the heater or light so that it does not melt or come in contact with plastic parts, to avoid equipment damage. You can also block off the step or door vent to keep in the heat during this time, but it must be removed once the freezing weather is no longer present.

### Extended Power Outages:

In most communities, power is restored relatively quickly. But in the event of a prolonged power outage, first shut off the power at the main panel. Close the knife valves to keep the hot water in the hot tub, and remove the drain plugs or pull out one of the small braided hoses on the front of the pumps to drain all the water from the external plumbing lines and the pumps. When power is out, check your hot tub each day to monitor its condition. DO NOT ALLOW FREEZING TO TAKE PLACE. Beachcomber Hot Tubs is not responsible for damage caused to hot tubs that are left without power in prolonged freezing conditions.

BEACHCOMBER IS NOT RESPONSIBLE FOR DAMAGE TO PERSONS OR PROPERTY FOR EQUIPMENT PAK REMOVAL. CONTACT YOUR LOCAL BEACHCOMBER STORE OR SERVICE PROVIDER FOR INFORMATION.

## Winter Shutdown Procedures

If leaving for a long period of time in severely cold weather and no one can come by to maintain the hot tub, do the following:

1. Drain the hot tub as outlined in this Owner's Guide.
2. Unscrew all union nuts on the front of the pump(s) to allow any water in the external lines to drain out. Retain the gaskets found at these locations, along with the equipment.
3. Locate and remove the small black slotted drain plugs found on the front of the pump(s) below the union nuts from step 2. or remove the small braided hose from the barbed fitting on the front of the Hush Pump. Removing these allows the last bit of water in the bottom half of the pump to drain out.
4. Remove the Microfilter cartridge and store in a dry place.
5. Twist off all jets, excluding the neck jet, and store in a dry place.
6. Lock Heatshield and attach Hurricane strapping if in high wind areas.
7. Provide extra support for the Heatshield if in extreme heavy snow by placing a 4 x 8 sheet of 3/4" plywood on top of the Heatshield.

BEACHCOMBER HOT TUBS IS NOT RESPONSIBLE FOR DAMAGE TO HOT TUBS THAT ARE LEFT UNATTENDED.

# Diagnostic Display Messages and Troubleshooting Guide

MESSAGE	MEANING	ACTION REQUIRED
	No message on display. Power has been shut off to hot tub. GFCI breaker is on but the control panel is blank. System fuse(s) are blown.	The control panel will be disabled until power returns. System resets time of day on each power-up. Hot tub settings are preserved. Call your store for service.
<b>DHH or HH</b>	"Overheat"- The hot tub has shut down. One of the sensors has detected 118°F/47.8°C at the heater.	DO NOT ENTER THE WATER. Remove the Heatshield cover and allow water to cool. Once the heater has cooled, reset by pushing any button. Check to see if the knife valve on return side of the heater is closed, if closed ensure that all knife valves are in the up or open position. If hot tub does not reset, shut off power to the hot tub and call your Beachcomber store.
<b>DHS or DH</b>	"Overheat"- The hot tub has shut down. One of the sensors has detected that the hot tub water is 110°F/43.3°C.	DO NOT ENTER THE WATER. Remove the hot tub Heatshield and allow water to cool. At 107°F/41.7°C, the hot tub should automatically reset. Follow action required for "DHH". If hot tub does not reset, shut off power to the hot tub and call your store.
<b>ICE or IC</b>	"Ice"- Potential freeze condition detected.	No action required. The Pumps and blower will automatically activate regardless of hot tub status.
<b>SY or STBY</b>	Hot tub is in Standby mode.	Make sure the Microfilter is back in place before pressing any button to remove from Standby.
<b>SnR or SR</b>	Hot tub is shut down. The sensor that is plugged into the sensor "A" jack is not working.	If the problem persists, contact your store. (May appear temporarily in an overheat situation and disappear when heater cools.)
<b>Snb or Sb</b>	Hot tub is shut down. The sensor that is plugged into the sensor "B" jack is not working.	If the problem persists, contact your store for service.
<b>SnS or Sn</b>	Sensors are out of balance. If this is alternating with the temperature, it may just be a temporary condition. If the display shows only this message (periodically blinking), The hot tub is shut down.	If problem persists, contact your store for service. Follow action required for "SnR".
<b>LF</b>	Persistent low flow problems. (Display on the fifth occurrence of the "HFL" message within 24 hours. Heater is shut down, but the other hot tub functions continue to operate normally.	Follow action required for the "HFL" message. Heating capacity of the hot tub will not reset automatically; you may press any button to reset.
<b>HFL or HL</b>	A substantial difference between the temperature sensors was detected. This could indicate a flow problem.	Check water level in hot tub. Refill if necessary. If the water level is okay, make sure the pumps have been primed. If problem persists try these solutions: Microfilter is dirty: Turn power to tub off at GFCI or power disconnect, remove Microfilter and clean or replace. Air lock in system: Locate air bleed thumb screws and open partially to release air in piping. Debris in Hush Pump: Call your store for service or shut down system, close all knife valves and remove face plate from Hush Pump to remove debris. Circulation pump failed or frozen: If freezing suspected, place trouble light or space heater around equipment to thaw out pump and external piping and call your store for service.

MESSAGE	MEANING	ACTION REQUIRED
<b>dr</b>	Possible inadequate water flow detected in heater after the 3rd occurrence of dr.	Check that all knife valves are open then, check water level in hot tub. Refill if necessary. If the water level is okay, make sure the pumps have been primed. Press any button to reset.
<b>drY or dY</b>	Confirmed inadequate water flow detected after 7 second heater tests.	Use same action as <b>DR</b> . Make sure circulation pump is running. If circulating pump is not running call your store for service.
<b>Pr</b>	When your hot tub is first actuated, it will go into priming mode.	The Priming Mode will last up to 4 minutes and then the hot tub will begin to heat and maintain water temperature in Standard Mode.
<b>--F / --C</b>	Temperature unknown.	After the pump has been running for 2 minutes, the temperature will be displayed.
<b>Std / St STANDARD</b>	The hot tub is operating in Standard Mode.	No action required. Refer to Heating modes page to change this mode.
<b>Ec n / Ec ECONOMY</b>	The hot tub is operating in Economy mode.	No action required. Refer to Heating modes page to change this mode.
<b>SLP / SL SLEEP</b>	The hot tub is operating in sleep heating mode.	No action required. Refer to Heating modes page to change this mode.

PROBLEM SYMPTOM	MOST LIKELY CAUSE	SOLUTION
<b>G.F.C.I. breaker will not stay on or trips intermittently.</b>	If hot tub is new; the load neutral wire has been inserted on the neutral buss in the panel. Load neutral wire should be inserted into the G.F.C.I. load neutral connection.	Call your Electrician to change location of the load neutral wire.
	Heater element is defective and leaking current to ground.	Call your store for service to replace the heater element.
	G.F.C.I. is worn out or defective. Class A, G.F.C.I. breakers should not trip below 5 milliamps of current leakage.	Call your electrician to replace your G.F.C.I.
<b>Jet pump is surging on high speed.</b>	Water level is too low on hot tubs that use a jet pump for filtering.	Raise water level in hot tub to at least 1/2 way up the skimmer opening.
	Plug in center of Microfilter basket is not in place on non Hush Pump equipped hot tub.	Install plug in basket, insert from top of basket.
	RFM jet nozzles are pointed toward the large suction fittings in the foot well.	Redirect nozzles up and away from the large suction fittings. Turn off all air control for RFM jets.
<b>Neck jet does not shut off.</b>	Internal portion of two piece neck jet has been unscrewed by turning too far to the left.	Carefully pry the faceplate off with a flat head screw driver and then thread internal back in. Then pop face plate back on and tighten internal by turning face plate clockwise.

# The Beachcomber Guarantee

We don't hide behind the spa industry standard 'disclaimers'. Beachcomber is and always will be a company built on care for the health, happiness, and well-being of our customers, staff, stores and corporate partners. This is not an abstract ideal, but a very real presence that you should expect to experience in all your dealings with Beachcomber.

We are family owned, and do not answer to distant shareholders. We support our customers and their ongoing satisfaction with the finest quality, and the best value in the most comfortable hot tub, worldwide. Our independently owned stores hold the same integrity, values and care for the Beachcomber Hot Tub owner, as we do. In fact, since 1978 we have looked after our customers and treated them like family.

## LIFETIME SHELL STRUCTURAL GUARANTEE

Beachcomber guarantees to the original owner that the Structural Laminated Fiberglass Composition of your hot tub will never leak. If a failure occurs, we will supply the materials and technical labor for the repair.

## 5 YEAR ACRYLIC SURFACE GUARANTEE

Beachcomber guarantees that the hot tub's acrylic finish will be free from defects in materials and workmanship for five years from the date of delivery. If a failure occurs, we will supply the materials and technical labor for the repair.

## 100% COMPONENT GUARANTEE

Beachcomber guarantees the following factory installed components: Management System, Massage Pumps, Hush Pump™, Motors, Heater Assembly, Control Panels, EverLite™, Eclipse Lighting™, Guiding Lite™, Garden EverLite™, EnviroSkirt™ Cabinetry, Ozone Generator, ClearTech™ UVC Water Care System, Quintessential™ AirConnect Surround Sound Music System, Internal and External Plumbing, and Light Lenses; will be free from defects in materials and workmanship for two years from the date of delivery. If a failure occurs, we will supply the materials and technical labor for the repair. An Ozone Generator uses consumable Corona Discharge Chips that are not covered under the Guarantee; the ClearTech™ UVC Water Care System uses consumable Bulbs that are not covered under the Guarantee.

## 100% EXCHANGE GUARANTEE

Beachcomber guarantees that the factory supplied hot tub Heatshield™ Cover, Jetting Massage Inserts, Steps, Filter Baskets, Microfilter™ Lid and Remote Controls will be free from defects in materials and workmanship for two years from the date of delivery. If a failure occurs, you can exchange the failed component at your local Beachcomber Store.

## 100% OWNER TRANSFER OPTION

The remaining portion of the Beachcomber Protection Guarantee is transferable to a new owner for a small fee, once in the life of the Guarantee. It is the new owner's responsibility to contact a Beachcomber representative to arrange for a customer-paid installation inspection of the hot tub to activate the Guarantee transfer. The transfer fee, hot tub serial number and inspection sheet must be received by the Beachcomber Guarantee office within 60 days of ownership transfer to be valid.

## SIMPLICITY GIVES YOU PEACE OF MIND

Typical limited spa industry warranties protect the manufacturer, not the customer. They are often ambiguous and filled with outright exclusions, limitations and disclaimers in their product. Beachcomber understands that buying a hot tub is a major purchase, and few people understand what can go wrong. We strive to look after our customers, and that is why The Beachcomber Protection Guarantee is designed to protect you, not us. We are proud of the position Beachcomber has taken in looking after our customers before, during, and after they purchase our hot tubs.

The Beachcomber Protection Guarantee protects you 100% of the time, and is included with all of our 700, 500 and 300 series hot tubs.

## Register your Standard Guarantee Online

Register online in order to activate your Beachcomber Guarantee: [www.beachcomberhottubs.com/register](http://www.beachcomberhottubs.com/register)

Online registration must be completed within 30 days of hot tub delivery. Before you go online, ensure you have two things:

1. A scanned copy or photo of the **Beachcomber Hot Tub Setup and Install Checklist**.  
(A Beachcomber Hot Tub representative will have completed the Checklist and given you a copy)
2. A scanned copy or photo of the **Sales Invoice**.

**For all other questions, please call our Guarantee department: 1-800-663-6557  
or visit us online for more information: [www.beachcomberhottubs.com](http://www.beachcomberhottubs.com)**

## EASY GUIDELINES TO ENSURE PERFORMANCE OF GUARANTEE

To receive service from a qualified Beachcomber service representative, your Beachcomber Hot Tub must be registered and you may be asked to provide an original bill of sale. Your Beachcomber Protection Guarantee starts from the original date of delivery. You may be assessed a reasonable travel cost for service at your home. It is the hot tub owner's full responsibility to provide unencumbered access to the equipment for service, removal, and/or re-installation of the hot tub for required repairs. If Beachcomber determines that repair of the hot tub is not feasible, we reserve the right to provide a replacement hot tub equal in value to the current fair market value.

In this case the owner is responsible for expenses including removal, shipping and reinstallation of the existing or replacement hot tub. Upon replacement of a hot tub, the Guarantee will cover the remaining portion of the existing Guarantee from the original installation date.

The Guarantee does not cover fading from natural aging and/or damage from excessive chemical use on all hot tub finishes, fixtures, steps and the Heatshield Cover, or crazing of the acrylic surface as these are not considered defects in materials and workmanship. Beachcomber Hot Tubs installed for commercial applications are excluded from all Guarantee coverage. The Beachcomber Protection Guarantee cannot anticipate, nor does it cover damage or failure that has occurred as a result of product abuse, accidents, power disturbances, vandalism, acts of God or nature and other causes which are out of any manufacturer's control.

All Beachcomber Hot Tubs must be used, installed and maintained as directed by the supplied Owner's Guide to receive Guarantee coverage. This Beachcomber Premium Guarantee is valid only in the country of purchase. The Guarantee must be purchased and registered within 30 days of the original hot tub purchase date. Service after the sale is the responsibility of the store from whom you purchased your Beachcomber Hot Tub.

All Guarantees must be registered online at [www.beachcomberguarantee.com/register](http://www.beachcomberguarantee.com/register) within 30 days of delivery.

## Read this important information for your safety and convenience:

1. Read this Owner's Guide thoroughly and follow the safety guidelines provided.
2. If you have questions not covered in this guide, call your local store, or, in North America, call 1.800.663.6557, or (604)591-8611.
3. Follow water care instructions and label instructions. Failure to do so can result in damage to the hot tub or the equipment.
4. Always leave your Heatshield open half way when shocking your water.
5. Always supervise children in and around a hot tub. Do not allow children to use the hot tub unsupervised.
6. Test your GFCI circuit protector at least once a month to ensure it is working correctly.
7. Rinse your Microfilter once a week to maintain water clarity.
8. Always check the water temperature before entry. Always check the sanitizer level for adequate levels. Failure to do so can cause respiratory and skin problems or disease.
9. Do not walk or sit on or put heavy weight on the Heatshield cover. This can cause the foam inserts to break.
10. Do not leave the hot tub exposed to the sun if empty. Always cover the hot tub with your Heatshield cover.
11. Always supervise children in and around a hot tub or pool.
12. Do not attempt to repair or service equipment. Consult your local Beachcomber store for expert and qualified service.
13. Do not attempt to drain and refill your hot tub during freezing temperatures.
14. Avoid using glassware in or around your hot tub. Do not enter a hot tub if the temperature is higher than 104°F / 40°C.
15. Do not operate the hot tub with inadequate water level.
16. Do not use drugs or alcohol in or around a hot tub.

## Save These Instructions

# The Beachcomber Premium Guarantee

**This Guarantee is available in North America only.**

We don't hide behind the spa industry standard 'disclaimers'. Beachcomber is and always will be a company built on care for the health, happiness, and well-being of our customers, staff, stores and corporate partners. This is not an abstract ideal, but a very real presence that you should expect to experience in all your dealings with Beachcomber.

We are family owned, and do not answer to distant shareholders. We support our customers and their ongoing satisfaction with the finest quality, and the best value in the most comfortable hot tub, worldwide. Our independently owned stores hold the same integrity, values and care for the Beachcomber Hot Tub owner, as we do. In fact, since 1978 we have looked after our customers and treated them like family.

## **LIFETIME SHELL STRUCTURAL GUARANTEE**

Beachcomber guarantees to the original owner that the structural laminated fiberglass composition of your hot tub will never leak. If a failure occurs, we will supply the materials and technical labor for the repair.

## **5 YEAR ACRYLIC SURFACE GUARANTEE**

Beachcomber guarantees that the hot tub's acrylic finish will be free from defects in materials and workmanship for five years from the date of delivery. If a failure occurs, we will supply the materials and technical labor for the repair.

## **100% COMPONENT GUARANTEE**

Beachcomber guarantees the following factory installed components: Management System, Massage Pumps, Hush Pump™, Motors and Control Panels; will be free from defects in materials and workmanship for five years. If a failure occurs, we will supply the materials and technical labor for the repair.

## **5 YEAR ENERGY SAVER HEATER GUARANTEE**

Beachcomber guarantees that the Smart Sense™ Heater Assembly will be free from defects in materials and workmanship for five years. If a failure occurs, we will supply the materials and technical labor for the repair.

## **5 YEAR NO LEAK PLUMBING GUARANTEE**

Beachcomber guarantees against leaks caused by defects in materials and workmanship for five years. This Guarantee covers leaks from internal and external plumbing and light lenses. If a failure occurs, we will supply the materials and technical labor for the repair.

## **5 ENVIROSKIRT GUARANTEE**

Beachcomber guarantees that the Enviroskirt™ Cabinetry will be free from defects in materials and workmanship for five years. If a failure occurs, we will supply the materials and technical labor for the repair.

## **SIMPLICITY GIVES YOU PEACE OF MIND**

Typical limited spa industry warranties protect the manufacturer, not the customer. They are often ambiguous and filled with outright exclusions, limitations and disclaimers in their product. Beachcomber understands that buying a hot tub is a major purchase, and few people understand what can go wrong. We strive to look after our customers, and that is why The Beachcomber Protection Guarantee is designed to protect you, not us. We are proud of the position Beachcomber has taken in looking after our customers before, during, and after they purchase our hot tubs.

The Beachcomber Protection Guarantee protects you 100% of the time, and is included with all of our 700, 500 and 300 series hot tubs.

## Register your Premium Guarantee Online

Register online in order to activate your Beachcomber Guarantee: [www.beachcomberhottubs.com/register](http://www.beachcomberhottubs.com/register)

Online registration must be completed within 30 days of hot tub delivery. Before you go online, ensure you have two things:

1. A scanned copy or photo of the **Beachcomber Hot Tub Setup and Install Checklist**.  
(A Beachcomber Hot Tub representative will have completed the Checklist and given you a copy)
2. A scanned copy or photo of the **Sales Invoice**.

**For all other questions, please call our Guarantee department: 1-800-663-6557  
or visit us online for more information: [www.beachcomberhottubs.com](http://www.beachcomberhottubs.com)**

## **EASY GUIDELINES TO ENSURE PERFORMANCE OF GUARANTEE**

To receive service from a qualified Beachcomber service representative, your Beachcomber Hot Tub must be registered and you may be asked to provide an original bill of sale. Your Beachcomber Premium Guarantee starts from the original date of delivery. You may be assessed a reasonable travel cost for service at your home. It is the hot tub owner's full responsibility to provide unencumbered access to the equipment for service, removal, and/or re-installation of the hot tub for required repairs. If Beachcomber determines that repair of the hot tub is not feasible, we reserve the right to provide a replacement hot tub equal in value to the current fair market value.

In this case the owner is responsible for expenses including removal, shipping and reinstallation of the existing or replacement hot tub. Upon replacement of a hot tub, the Guarantee will cover the remaining portion of the existing Guarantee from the original installation date.

The Guarantee does not cover fading from natural aging and/or damage from excessive chemical use on all hot tub finishes, fixtures, steps and the Heatshield Cover, or crazing of the acrylic surface as these are not considered defects in materials and workmanship. Beachcomber Hot Tubs installed for commercial applications are excluded from all Guarantee coverage. The Beachcomber Premium Guarantee cannot anticipate, nor does it cover damage or failure that has occurred as a result of product abuse, accidents, power disturbances, vandalism, acts of God or nature and other causes which are out of any manufacturer's control.

All Beachcomber Hot Tubs must be used, installed and maintained as directed by the supplied Owner's Guide to receive Guarantee coverage. This Beachcomber Premium Guarantee is valid only in the country of purchase. The Premium Guarantee must be purchased and registered within 30 days of the original hot tub purchase date. Service after the sale is the responsibility of the store from whom you purchased your Beachcomber Hot Tub.

All Guarantees must be registered online at [www.beachcomberguarantee.com/register](http://www.beachcomberguarantee.com/register) within 30 days of delivery.

## **Read this important information for your safety and convenience:**

1. Read this Owner's Guide thoroughly and follow the safety guidelines provided.
2. If you have questions not covered in this guide, call your local store, or, in North America, call 1.800.663.6557, or (604)591-8611.
3. Follow water care instructions and label instructions. Failure to do so can result in damage to the hot tub or the equipment.
4. Always leave your Heatshield open half way when shocking your water.
5. Always supervise children in and around a hot tub. Do not allow children to use the hot tub unsupervised.
6. Test your GFCI circuit protector at least once a month to ensure it is working correctly.
7. Rinse your Microfilter once a week to maintain water clarity.
8. Always check the water temperature before entry. Always check the sanitizer level for adequate levels. Failure to do so can cause respiratory and skin problems or disease.
9. Do not walk or sit on or put heavy weight on the Heatshield cover. This can cause the foam inserts to break.
10. Do not leave the hot tub exposed to the sun if empty. Always cover the hot tub with your Heatshield cover.
11. Always supervise children in and around a hot tub or pool.
12. Do not attempt to repair or service equipment. Consult your local Beachcomber store for expert and qualified service.
13. Do not attempt to drain and refill your hot tub during freezing temperatures.
14. Avoid using glassware in or around your hot tub. Do not enter a hot tub if the temperature is higher than 104°F / 40°C.
15. Do not operate the hot tub with inadequate water level.
16. Do not use drugs or alcohol in or around a hot tub.

## **Save These Instructions**

## Hot Tub Specifications and Details

MODEL	SEATING CAPACITY	FOOTPRINT DIMENSIONS	HEIGHT	WATER CAPACITY	DRY WEIGHT	FILLED WEIGHT	NORTH AMERICAN ELECTRICAL STANDARDS
750	8 + 1 cooling seat	89" x 89" 226 x 226 cm	38" 97 cm	437 US Gal 1654 L	800 lbs 363 kg	4446 lbs 2017 kg	220 Volt; 60 Amp 6/3 Wire GFCI Protector Circuit
740	6 + 1 cooling seat	89" x 89" 226 x 226 cm	38" 97 cm	403 US Gal 1526 L	800 lbs 363 kg	4162 lbs 1888 kg	220 Volt; 60 Amp 6/3 Wire GFCI Protector Circuit
725	6 + 1 cooling seat	80" x 88" 203 x 224 cm	38" 97 cm	335 US Gal 1268 L	675 lbs 306 kg	3470 lbs 1574 kg	220 Volt; 50 Amp 6/3 Wire GFCI Protector Circuit
720	7 + 2 cooling seats	80" x 88" 203 x 224 cm	38" 97 cm	362 US Gal 1370 L	675 lbs 306 kg	3695 lbs 1676 kg	220 Volt; 50 Amp 6/3 Wire GFCI Protector Circuit
715	4	70" x 86" 178 x 218 cm	38" 97 cm	310 US Gal 1173 L	700 lbs 318 kg	3037 lbs 1378 kg	220 Volt; 50 Amp 6/3 Wire GFCI Protector Circuit
580	8 + 1 cooling seat	89" x 89" 226 x 226 cm	38" 97 cm	430 US Gal 1628 L	725 lbs 329 kg	4312 lbs 1956 kg	220 Volt; 50 Amp 6/3 Wire GFCI Protector Circuit
579/590	7 + 1 cooling seat	89" x 89" 226 x 226 cm	38" 97 cm	430 US Gal 1628 L	750 lbs 340 kg	4337 lbs 1968 kg	220 Volt; 50 Amp 6/3 Wire GFCI Protector Circuit
578/565	7 + 1 cooling seat	80" x 88" 203 x 224 cm	38" 97 cm	362 US Gal 1370 L	650 lbs 295 kg	3670 lbs 1665 kg	220 Volt; 50 Amp 6/3 Wire GFCI Protector Circuit
550/565L	6 + 2 cooling seats	80" x 88" 203 x 224 cm	38" 97 cm	380 US Gal 1438 L	650 lbs 295 kg	3820 lbs 1733 kg	220 Volt; 50 Amp 6/3 Wire GFCI Protector Circuit
540	5 + 1 cooling seat	70" x 86" 178 x 218 cm	38" 97 cm	300 US Gal 1136 L	600 lbs 272 kg	3103 lbs 1408 kg	220 Volt; 40 Amp 8/3 Wire GFCI Protector Circuit
520	2 (opposite seating)	57" x 75" 145 x 191 cm	30" 76 cm	175 US Gal 662 L	425 lbs 193 kg	1885 lbs 855 kg	220 Volt; 40 Amp 8/3 Wire GFCI Protector Circuit
380	7 + 1 cooling seat	89" x 89" 226 x 226 cm	38" 97 cm	418 US Gal 1582 L	725 lbs 329 kg	4212 lbs 1911 kg	220 Volt; 40 Amp 8/3 Wire GFCI Protector Circuit
360/365	6 + 1 cooling seat	80" x 88" 203 x 224 cm	38" 97 cm	345 US Gal 1306 L	650 lbs 295 kg	3528 lbs 1601 kg	220 Volt; 40 Amp 8/3 Wire GFCI Protector Circuit
350/365L	6 + 1 cooling seat	80" x 88" 203 x 224 cm	38" 97 cm	375 US Gal 1419 L	650 lbs 295 kg	3778 lbs 1714 kg	220 Volt; 40 Amp 8/3 Wire GFCI Protector Circuit
340	5 + 2 cooling seats	70" x 86" 178 x 218 cm	34" 86 cm	300 US Gal 1136 L	640 lbs 290 kg	3143 lbs 1426 kg	220 Volt; 40 Amp 8/3 Wire GFCI Protector Circuit
321	4/5 + 1 cooling seat	78" DIA 198 cm DIA	34" 86 cm	242 US Gal 916 L	425 lbs 193 kg	2444 lbs 1109 kg	115 Volt; 15 Amp Plug in Cord

## Power Guard Heatshield Specifications and Details

The following table specifies Power Guard Heatshiled covers that are recommended for use with your Beachcomber Hot Tub to maximize the energy efficiency of your hot tub.

The covers listed below have been tested with each Beachcomber Hot Tub Model for the purposes of Energy Efficiency as stipulated by the California Energy Commission according to test procedures in California Title 20 and ANSI/APSP-14.

BEACHCOMBER HOT TUB MODEL	POWER GUARD HEATSHIELD COVER MODEL	COVER SIZE
750, 740, 590, 580, 579, 380	97XX898915SF	89" x 89" 226 x 226 cm
725, 720, 578/565, 550/565L, 360/365, 350/365L	97XX808815SF, 97XX808815OF	80" x 88" 203 x 224 cm
715, 540, 340	97XX708615SF, 97XX708615OF	70" x 86" 178 x 218 cm
520	97XX577515SF, 97XX577515OF	57" x 75" 145 x 191 cm
321	97XX78RD15SF	78" DIA 198 cm DIA

## Find More Information on The Beachcomber Voice

Your Beachcomber Hot Tub purchase is very important to us. We would like to know about your buying experience and your level of satisfaction with us, our Beachcomber store and your new hot tub. Please take a few minutes to log on to our website to take a short questionnaire. Your feedback helps us improve our service to you and gives us valuable insight into your purchase experience. Log on to our website today.

Thank you for your time!

[www.beachcomberhottubs.com](http://www.beachcomberhottubs.com)





BEACHCOMBER  
HOT TUBS



Keith and Judy Scott  
Founders of Beachcomber Hot Tubs

## Our Commitment to Your Family

A Beachcomber Hot Tub is an investment in you and your family. Since 1978, our extended family of stores around the world have been helping people just like you to make a solid, informed decision about buying a hot tub. We have always believed in giving the information and education needed to make that important decision. We know that the sale really begins after you have your Beachcomber in your home.

Our desire for you is to have the best experience possible with your new Beachcomber Hot Tub, that's why our stores are equipped to help you with any additional needs you may have. From our family to yours, thank you for putting your trust in us and our products. We are pleased that you have chosen Beachcomber, and hope you recommend us to your friends and relatives.

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