

## Important Safety Instructions

*It is the hot tub owner's responsibility to read and follow all the instructions and precautions described in this manual. Failure to do so may result in personal injury. Liability rests with the hot tub owner. Please, make instructions available for reference by all hot tub users. Some warnings labels have been shipped with your new hot tub.*

- 1. BEFORE OPERATING THE SPA: READ AND FOLLOW ALL INSTRUCTIONS. SAVE ALL INSTRUCTIONS.**
- 2. 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 unless they are supervised at all times.
- 3. DANGER** – Risk of injury. The suction fittings in this hot tub 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 the flow rates are compatible. Never operate the hot tub 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. Always use, new, virgin, fresh parts in hot tub.
- 4. DANGER** – Risk of Electric Shock. Do not permit any electric appliance, such as a light, telephone, radio, or television within 6 feet (2m) of the hot tub.
- 7. WARNING** – To reduce the risk of Injury:
  - a.** Before using your hot tub, you should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices varies  $\pm 5^{\circ}\text{F}$  ( $\pm 3^{\circ}\text{C}$ ).
  - b.** The water in the hot tub should never exceed  $104^{\circ}\text{F}$  ( $40^{\circ}\text{C}$ ). Water temperatures between  $100^{\circ}\text{F}$  ( $37^{\circ}\text{C}$ ) and  $104^{\circ}\text{F}$  ( $40^{\circ}\text{C}$ ) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when hot tub use exceeds 10 minutes.
  - c.** The use of alcohol, drugs, or medication before or during hot tub use may lead to unconsciousness with the possibility of drowning.
  - d.** Individuals using medications should consult their physician before using the hot tub since some medications may induce drowsiness, while other medications may affect heart rate, blood pressure, and circulation.
  - e.** Individuals suffering from obesity or with a medical history of heart disease, high or low blood pressure, circulatory system problems, multiple sclerosis, thyroid disease, or diabetes should consult their physician before using the hot tub.
  - f.** Since excessive water temperatures have a high potential for causing fetal damage during early months of pregnancy, pregnant or possibly pregnant women should limit hot tub water temperatures to  $100^{\circ}\text{F}$  ( $37^{\circ}\text{C}$ ), you should also consult your physician before using the hot tub.
  - g.** Heat stroke is a dangerous condition brought about by excessive heat. It especially affects the very young, elderly, individuals under the influence of alcohol or drugs, and those using certain medications. The symptoms include: sweating, dizziness, nausea, light-headedness, convulsions, increased pulse rate, shallow breathing, and in the extreme, unconsciousness. If you suspect heat stroke, get medical help immediately. Lay the victim on his/hers back with the head slightly elevated for easier breathing, and apply ice packs to the head.
  - h.** Emergency telephone numbers, such as: hospital, physician, ambulance, paramedics, and the police should be readily available and posted next to a close-by telephone.
- 8. This appliance should be supplied through a residual current device (RCD) with a rated tripping current not exceeding 30MA.**

## **SAFETY PRECAUTIONS**

### **DANGER – RISK OF INJURY – READ AND FOLLOW ALL INSTRUCTIONS**

1. **Read, keep, and make these instructions available!**
2. Children should be **CLOSELY** supervised at all times.

**WARNING – RISK OF CHILD DROWNING -**  
**Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use hot tub unless they are supervised at all times.**

3. **DANGER:** To avoid the risk of drowning, keep the filter clean and unclogged. Do not remove the suction drain cover. Do not modify the suction or filtration systems.
4. Exercise caution when entering or leaving the hot tub. When changing positions, be sure of your footing before applying your full weight, as water refraction can be misleading and surfaces may be slippery when wet.
5. Do not stay in the water for extended periods of time. Set reasonable time limits. Leave the hot tub, cool down, take a shower, relax, and then return for another stay.
6. The water in a spa should never exceed 104 ° F (40° C). Water temperatures between 100°F (37°C) and 104 °F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 to 15 minutes) and for young children.
7. Since excessive water temperature has a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 100° F (37 ° C).
8. Before entering a spa, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature regulating devices may vary as much as 5°F (3°C)
9. Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using a spa or hot tub.
10. Never use hot tub alone.
11. **Danger- Risk of Injury- Replace damaged cable immediately. Do not bury cable. Connect to a grounded, grounding type receptacle only.**



### **Extreme Caution**

**Hyperthermia:** Occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). The symptoms of Hyperthermia include dizziness, fainting, drowsiness or lethargy.

*The effects of Hyperthermia include:*

1. *Unawareness of impending hazard*
2. *Failure to perceive heat*
3. *Failure to recognize the need to exit spa*
4. *Physical inability to exit spa*
5. *Fetal damage in pregnant women*
6. *Unconsciousness resulting in a danger of drowning*

# BALBOA FREE15 EURO CONTROL

## Quick Reference Card

### Initial Start-up

Your Free15 control has been specifically designed so that by simply connection the spa to its properly grounded source, the control will automatically heat the water to the set temperature.



### Temperature Adjustment (26°C - 40°C)

The current temperature is constantly displayed on the LCD. Press the “Up” or “Down” buttons to display the set temperature. Each time either pad is pressed again, the set temperature will increase or decrease depending on which pad is pressed. After three seconds, the LCD will automatically display the current spa temperature.

### Jets

Press the “Jets” pad once to turn on the pump. The pump’s low speed and the ozone generator (if installed) will operate. Press the pad a second time and the pump’s high speed will run. Press the Jets pad again to turn off the pump. The pump’s low speed and the ozone generator (if installed) turn off after 2 hours. The pump’s high speed turns off after 15 minutes. When the heater is turned on, the pump and the ozone generator (if installed) are automatically activated. If activated, neither can be turned off with the function pad; however, the pump’s high speed may be started.

### Light

Press the Light pad once to turn on the light. Press the pad again to turn the light off. If left on, the light will automatically turn off after 4 hours of operation.

### Preset Filter Cycles

Your Free15 will automatically filter itself twice each day. The first filter cycle will begin 1 minute after the Free15 is energized. The second filter cycle will begin 12 hours after the start of the first filter cycle. Filter duration is programmable at the topside panel for 2, 4, 6 or 12 hours. The default is 2 hours. To program press “Up” or “Down” then “Jets”. Press “Up” or “Down” to select duration, then press “Jets” to exit. During filtration, the pump’s low speed and the ozone generator (if installed) run continuously.

### Freeze Protection

If the high limit sensor detects 4° C at the heater, the pump’s low speed automatically activates to provide freeze protection. The pump stays on until the sensor detects 7° C at the heater. Freeze protection is enabled regardless of spa status. In colder climates, an optional freeze sensor may be added to protect against freeze conditions. See your dealer for details.

### Diagnostic Messages

Overheat (Spa is deactivated)

**DO NOT ENTER THE WATER:** If the spa water has reached 45°C, remove the spa cover to cool the water. Overheating may occur if the filter cycle is set too long. At 43°C, the spa should reset itself. If the high-limit sensor detects 48°C at the heater, the spa will shut down. When the heater cools to 43°C, press any button to reset the spa. If the spa will not reset, then shut off power to the spa and call your dealer or service organization.

**FLOW** – A pressure switch is not working. Call your dealer or service organization.

**SENSOR (Spa is deactivate)** - The high-limit sensor or water temperature sensor is not working. Call your



### Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt service of this control. Contact your dealer or service organization for assistance. Follow all owner manual power connection instructions. A licensed electrician must perform installation and all grounding connections must be properly installed.

dealer or service organization.

## Featured Operations

### **AIR CONTROL VALVE (when equipped)**

If your hot tub is installed with an Air Control Valve (Units equipped with a whirlpool will have two air control valves.) The air control valve serves to regulate the amount of air mixed with the water when the jets are operational. Rotate the air control in one direction to achieve the maximum jet pressure and therapeutic action. Rotating the air control in the opposite direction to turn air off and allow the jets to work with water only. Turn the air controls off when the hot tub is not in use. This will prevent cold air from entering the hot tub and will keep heating cost to a minimum.

### **HYDROTHERAPY JETS**

The Hydrotherapy jets are recessed and located in the wall of the hot tub. Rotate the jet face counterclockwise to turn the jets on, clockwise to turn the jets off. Not all jets have a rotational face to turn off and on the jets. Turning off or on a jet will increase or decrease the effects of any jets “not” in the closed position.

### **LED MULTI COLOR LIGHT (when equipped)**

If your hot tub is installed with a LED Multi Color light at factory, firmly and quickly turning the light switch on and off will cause the light color effect mode to change to your desired program.

### **OZONATORS**

Your hot tub is installed with an ozonator at the factory, your hot tub will automatically filter water at preset times. Please note that ozonator and chemicals work together to kill bacteria. An ozonator cannot totally eliminate the need for chlorine. Ozone is a bactericide. A tube links the ozone compartment with the ozone jet. During the filter cycle, when the water pump is on low speed, the water movement through the ozone jet draws the ozone out of the compartment, mixes with and purifies the water in the process.

### **WHIRLPOOL JET (when equipped)**

If your hot tub is installed with a whirlpool jet at the factory it will be located below the water line at or near the control panel area, in the wall. This jet is a combination valve or diverter valve and high capacity jet, and has a larger diameter than the hydrotherapy jets. The whirlpool jet is turned on and off by rotating the jet face. Because, there is a substantial amount of water pressure when the jet is in operation, you must turn the pump off or to low speed before attempting to rotate the jet face. As the whirlpool jet open position is increased it will begin turning off all of the hydrotherapy jets. Units installed with a whirlpool will have an additional air control valve dedicated to the whirlpool. The whirlpool must be in the completely off or completely on position to provide accurate heating or when the spa is unoccupied.

### **WATERFALL (when equipped)**

If your hot tub is installed with a waterfall from the factory there will also be a control valve to operate the amount of flow through the waterfall from no flow to a steady stream. This valve will be located in various positions on the tub depending on the model. **\*Note:** The air control valve and the waterfall flow valve may look and function exactly the same and may operate in the same way, however; they will be separate components. If the flow of your waterfall seems uneven there is a clean out located under the waterfall. This clean out can be slid from one side to the other to evacuate any foreign objects that may have entered into the flow of the waterfall. Never run your spa without the filter in place as this helps to prevent foreign objects from entering your system. Any clogging in system due to foreign objects will not be covered under warranty.

## Fill Up and Start Instructions

*The following procedures should be followed on initial startup and whenever the hot tub is drained for routine maintenance.*

### FILLING THE HOT TUB WITH WATER

1. Clear all the debris from your hot tub.
2. Use a garden hose to fill your hot tub with water. **NOTE: do not use home water heater or softened water.**
3. As the water level rises, check inside the equipment compartment for water leaks. It may be necessary to tighten unions and/or fittings that may have loosened during delivery. There is no need to call for service; this can easily be done by you. If assistance is required, your dealer or service organization may charge a small fee.
4. Under normal circumstances keep the water level at the texture level mark, where the rough texture meets the smooth texture on the inside of the spa, at all times. Keep in mind that every person who enters the spa will create a certain amount of water displacement, depending on their size and weight—as a result you may need to reduce the amount of water you normally have in the tub, so as to prevent the water from hitting your topside control or flowing over the top of the hot tub. All jets must be under water at all times.

### APPLYING POWER

**Note: A qualified electrician must complete all electrical installations.**

Please review the following procedures and power-up events before applying voltage to the Power System:

#### STEP I

1. Test and reset the power. If it does not operate properly, do not apply voltage to the Power System until the problem has been corrected.
2. Fill the hot tub to its correct operating level. Be sure to open all jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing and the Power System during the filling process.

#### STEP II

Apply power by turning on your main power panel. Your hot tub has been specifically designed so by simply applying power, it will automatically heat to the factory default temperature of 100° F (37° C).

1. Press the Jets pad on the topside control panel to activate the spa. Rotate the air control valves to “Max” and observe the increased jet action.

**NOTE: Let the high-speed pump run for 10 minutes. This helps purge the air from the water lines.**

2. While the pump is running, check again for water leaks at the drain spigot, unions, or fittings in the equipment compartment. If water is leaking from one of these areas, there is no need to call for service. Simply tighten the fitting. If assistance is required, your dealer or service organization may charge a small fee.
3. After checking your spa for leaks it is now time to adjust your preferred temperatures and turn off the high-speed pump.

