ACE™
Salt Water Sanitizing System

Control Panel
Quick Reference Guide

Boost Soft Button
Use the Boost function to increase the sanitizer output. Use pre- or post-event when spa use is more than normal. Takes 24 hours to complete.

Use Level Soft Button
Select the Use Level, choose from 1 (min) to 5 (max), to indicate how much sanitizer is needed.

Set-up Soft Button
Access the Set-up menu to set the Spa Size at start-up, or to run a Salt Test.

JETS   LIGHTS

Boost   Use Level
                   3
Water Care System
Functioning

                   Set-up

OPTIONS   BACK

READY   POWER

To Access the ACE System Menu
Press the Options hard button.

Water Care Icon
• Static icon indicates system is functioning.
• Flashing icon reminds you to check your spa water every 30 days and/or indicates that the system requires attention.

HotSpring® Portable Spas

Limelight® HOT TUBS

MODE Buttons
Use these buttons to scroll through the menu options.

To Access the ACE System Menu
Press the MODE ▲ button until ACE+ is displayed on the screen. Then press the ON ▲ button to select the ACE menu.
Press the MODE ▲ button until EXIT+ is displayed on the screen. Then press the ON ▲ button to select exit.

ON and OFF Buttons
Use the ON ▲ button to enter the ACE menu when ACE is displayed on the screen, or to adjust an ACE setting. Use the OFF ▼ button to set and confirm settings in the ACE menu.

JETS   LIGHT

READY   POWER

SET TEMP
◊ACE+

MODE   MODE   ON   OFF

Limelight HOT TUBS

Water Care Icon
• Static icon indicates system is functioning.
• Flashing icon reminds you to check your spa water every 30 days and/or indicates that the system requires attention.

Boost Feature
Use the Boost function to increase the sanitizer output. Use pre- or post- event when spa use is more than normal. Takes 24 hours to complete. Press the MODE ▲ button until bOOST is displayed. Press the OFF ▼ button twice to set and confirm the Boost.

Salt Test Feature
Use this feature to test the salt level of the water. In the ACE menu, press the MODE ▲ button until SALT is displayed. Press the OFF ▼ button twice to set and confirm a Salt Test. The OK range values for Salt are between 3 and 6. Refer to the ACE Owner's Manual if your water is outside this range.

IMPORTANT

- Always read & **refer to the owner's manual** for complete information.
- **Test your water** with a test strip once a **week**, or each time the spa is used. **This step takes less than 1 minute**!
- The ACE system requires feedback/input; **it is not a "set it & forget it" system**.
- Use the hot tub only when the chlorine level is between 1- 5 ppm. Boost or manually add bottled granular chlorine as needed.
- **Low/No Use:** For vacations, or if the spa is used once a week or less, **decrease the Use Level to 1**.
- For extended vacations or periods of non-use, **shock the spa water** and **set the Spa Size to 2 and the Use Level to 1**.
  If you are unsure about your settings, contact your Hot Spring® dealer for direction.
- It is the **spa owner's responsibility** to adjust the Use Level **to prevent over or under chlorination**.

SYSTEM START-UP
Approximately 2 times per year

1. Fill your spa using the CleanScreen™ pre-filter. Begin heating the water to at least 100 °F.
2. Test your water with a FreshWater® 5-way test strip and balance according to the spa water guidelines. **Water outside the guidelines may cause improper ACE system function and/or damage to spa components**.
   - Adjust pH/Alkalinity levels as needed.
   - Use Vanishing Act™ calcium remover to decrease hardness as needed.
3. Add 100% of the recommended salt, per the ACE owner's manual.
4. Shock the water with bottled granulated chlorine to 5 ppm.
5. Set Spa Size and Use Level, per the ACE owner's manual.

THE ACE CELL TAKES ABOUT 24 HOURS TO STABILIZE
WHEN STARTING UP FOR THE VERY FIRST TIME.

After 24 hours have passed:

6. Confirm the water is at least 100 °F (37.5 °C), then verify the ACE system status message.
   - "Water Care System Functioning" - go to step 7.
   - "Inspect Cell/Check Salt" - Verify salt level using salt test strip. If salt level is low, add 1/2 cup of salt and run the jets for 5 minutes then retest. Repeat until salt level is in the OK range.
7. Test the water with a FreshWater 5-way test strip.
   - Add pH down and/or bottled chlorine as needed.
   - Use additional Vanishing Act calcium removers as needed.
   - Adjust Use Level up if chlorine level is below 1 ppm, or down if chlorine level is above 5 ppm.

ONGOING REQUIREMENTS

Weekly
Test the water with a FreshWater 5-way test strip. ***This step takes less than 1 minute!***
- The pH level may increase during the first few weeks after start-up. Add pH down if needed.
- Adjust the Use Level, if needed, to maintain 1-3 ppm chlorine.

Monthly
Test the water with a FreshWater 5-way test strip. ***This step takes less than 1 minute!***
- Ensure water is balanced and re-confirm Use Level via the control panel. Make adjustments if needed.
- Shock the water with bottled chlorine to 5 ppm.

Quarterly
Inspect the ACE cell for calcium and clean as needed. ***This step takes less than 15 minutes!***
- Lower hardness of water with the Vanishing Act calcium remover, if needed.

SPA WATER GUIDELINES

Parameter	Target	Min - "OK Range" - Max	
pH	7.4	7.2	7.6
Alkalinity	80ppm	40ppm	120ppm
Hardness	50ppm	25ppm	75ppm
Chlorine	3ppm	1ppm	5ppm
Salt	1500ppm	1000ppm	1750ppm

Check with your Hot Spring dealer to determine if water in your region has **unique qualities** – such as high metal or mineral content – that should be addressed.

HotSpring®
Portable Spas