Step 1: Prepare the Hot Tub

1. Fill hot tub with fresh water.
   If using source water that is high in iron or other metals, use a metal control product before filling the hot tub. If not, it may require the use of a metal control product.

2. Clean and replace filter cartridges.
   (Follow manufacturer’s instructions).

3. Balance water by following STEPS a — d in order.
   **IMPORTANT:** Follow printed instructions on the balancing chemical packages. Add balancing chemicals in small increments one at a time with the jets on and wait 6 hours before testing again and adding any additional balancing chemicals.

   **Water Balance Guidelines**
   - pH: 7.2 – 7.8
   - Total Alkalinity: 80 – 120 ppm
   - Calcium Hardness: 150-250 ppm
   - Total Dissolved Solids: <1500

   a. Take a water sample from the hot tub and dip a FROG Test Strip into it.
   b. Look at the Total Alkalinity reading first. Adjustments should be made to bring the Total Alkalinity in the range of 80 – 120 ppm prior to making any adjustments to pH even if it throws pH off further.
   c. Lastly test for Calcium Hardness. It should be between 150 and 250 ppm. If higher, partially drain the hot tub (about 6 inches) and fill with water low in calcium. If lower, add Calcium Increaser.
   d. If balancing takes longer than 2 days shock the water and maintain a chlorine level while continuing balancing.

Step 2: Set the Cartridges

1. The SPA FROG Floating System has two replaceable cartridges.
   The combination provides the Fresh Mineral Water® benefits of cleaner, cleaner and softer water that’s easier to take care of.

2. Set the mineral cartridge to #6 (hold the bottom and turn the top until 6 appears in the setting window). No further adjustments are necessary for the life of this cartridge.

3. Set the bromine cartridge to the setting that matches your hot tub size in gallons.

   **System Setting Chart**
<table>
<thead>
<tr>
<th>Hot Tub Size</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>550 Gallons</td>
<td>5</td>
</tr>
<tr>
<td>450 Gallons</td>
<td>4</td>
</tr>
<tr>
<td>350 Gallons</td>
<td>3</td>
</tr>
<tr>
<td>250 Gallons</td>
<td>2</td>
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<tr>
<td>150 Gallons</td>
<td>1</td>
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<td>400 Gallons</td>
<td>5</td>
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<td>300 Gallons</td>
<td>4</td>
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<tr>
<td>200 Gallons</td>
<td>3</td>
</tr>
<tr>
<td>100 Gallons</td>
<td>2</td>
</tr>
</tbody>
</table>

4. For one week test the water daily with FROG Test Strips and adjust cartridge up or down by 1 setting per day until the color on the test strip matches the ideal FROG bromine range of 1.0 to 2.0 ppm.

Step 3: Put the System to Work

1. Insert both cartridges into the green floating holder by pushing them into the openings until they stay in place.

2. Let the Floating System free-float in the hot tub.

3. When using the hot tub, simply top up FROG Floating System; drain the water into the hot tub and insert on the side of the hot tub.

4. **REMEMBER TO RETURN SPA FROG FLOATING SYSTEMS TO HOT TUB WHEN YOU GET OUT!**

Step 4: Routine Hot Tub Care

1. Drain and refill hot tub as directed by your hot tub manufacturer or every four months when FROG Minerals need to be replaced.

2. Run filtration system as recommended by your hot tub manufacturer.

3. Regularly test water. Maintain pH, Total Alkalinity and Calcium Hardness levels with the precise FROG Test Strips.
   **NOTE:** Water balance is affected by barload, chemical usage, evaporation and the makeup of source water so maintaining water balance regularly is important.

4. **Very Important!** Establish an initial residual of 1.0-2.0 ppm bromine or chlorine. For best results use FROG Jump Start (EPA Reg. #53735-12) that quickly dissolves with an effervescent action – one packet per 500 gallons. Do not use a non-chlorine shock.
   **CONFIRM PROPER RESIDUAL AMOUNT BEFORE EMPLOYING SPA FROG FLOATING SYSTEM.**

5. Heat water to the manufacturer’s recommended temperature.

6. Begin routine hot tub care (see Step 4; Routine Hot Tub Care) as soon as hot tub is prepared.

Troubleshooting

- **Cloudy Water or Low-Bromine Levels**
  - Check water balance. Ensure pH, Total Alkalinity and Calcium Hardness are correct.

- **High Bromine Levels**
  - Remove the system from the hot tub until the bromine level is down to 2.0 ppm.
  - Lower the Bromine Cartridge setting by 1 number and replace system in the hot tub.
  - Test in 24 hours. Repeat process until bromine level stays within 1.0 to 2.0 ppm.

**Reinstall the system into the hot tub.**