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, see your dealer before filling the hot tub. It may require the use of a metal control product.

2. **Clean or replace filter cartridges when dirty.** Follow manufacturer’s instructions.

3. **Balance water by following steps a-d in order.**

   **a. Take a water sample from the hot tub and dip a FROG® Ease 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. If higher or lower, add a pH adjuster.

   **c. After Total Alkalinity is in range, test for pH.** It should be between 7.2 and 7.8. If higher, lower or add a pH adjuster.

   **d. Lastly test for Calcium Hardness.** It should be between 150 and 250 ppm. If higher, partially drain the hot tub (about 6 inches) or add FROG® Ease Mineral Cartridge (if available). If lower than the in indicator on the bottle, the water is too soft; add FROG® Ease Mineral Cartridge. If balancing takes longer than 2 days shock the water and maintain a chlorine level while continuing balancing.

4. **Very Important!** After balancing and before using cartridges, establish an initial chlorine level of 0.5 to 1.0 ppm with FROG® Jump Start. If pH is below 7.2, adjust pH following the directions on that product. Set the FROG® Ease Mineral Cartridge to setting number 4. Using the System: Remove filter snap cap and weir door / filter plate. Remove cartridge holder from hot tub by pulling up on the handle. Snap cartridge into one opening of the holder. With the FROG® Ease logo facing the holder, put the dial of the cartridge into the holder first by connecting the tab on the holder with the indent in the cartridge. Then push the top part of the cartridge into the slot in the holder. For best results insert the FROG® Ease SmartChlor Cartridge into the other opening. When cartridge is snapped in, replace holder between the filter cartridges under deck/ equipment pad. Push in until it snaps into place. Replace the Snap cap later.

5. **Balance Total Dissolved Solids.** 80 – 120 ppm

6. **Other Ingredients:** 99.5%

   Under 0.5 to 1.0 ppm with FROG® Jump Start. If pH is below 7.2, adjust pH following the directions on that product. Set the FROG® Ease Mineral Cartridge to setting number 4. Using the System: Remove filter snap cap and weir door / filter plate. Remove cartridge holder from hot tub by pulling up on the handle. Snap cartridge into one opening of the holder. With the FROG® Ease logo facing the holder, put the dial of the cartridge into the holder first by connecting the tab on the holder with the indent in the cartridge. Then push the top part of the cartridge into the slot in the holder. For best results insert the FROG® Ease SmartChlor Cartridge into the other opening. When cartridge is snapped in, replace holder between the filter cartridges under deck/equipment pad. Push in until it snaps into place. Replace the Snap cap later.

7. **Replace filter snap cap.**

Step 3: Put the System To Work

1. **Remove filter snap cap.**

2. **Hold weir door/filter plate out into the hot tub slightly or remove from hot tub.** Drain water from cartridge holder to empty. Discard in trash or offer for recycling if available.

3. **Snap the FROG® Ease SmartChlor Cartridge into one opening of the cartridge holder.** With the FROG® Ease logo facing the holder, put the dial of the cartridge into the holder first by connecting the tab on the holder with the indent in the cartridge. Then push the top part of the cartridge in until it snaps into place. For best results insert the FROG® Ease SmartChlor Cartridge into the other opening. When cartridge is snapped in, replace holder between the filter cartridges under deck/ equipment pad. Push in until it snaps into place. Replace the Snap cap later.

4. **Why FROG® Ease Test Strips?** The FROG® Ease SmartChlor® Cartridge forms a chlorine reserve that will be inadequately measured as total chlorine on other test strips. Unlike conventional chlorine, the SmartChlor reserve readily shifts to free chlorine as needed, maintaining spa health with a low level of chlorine.

5. **Recovering FROG® Ease** Cartridge automatically on/off. This is highly unlikely with the FROG® Ease System because SmartChlor is self-regulating. However, if you use standard test strips, it may appear that total chlorine is higher than the free chlorine.

6. **Note:** pH is affected by bather load, chemicals used, evaporation and the make-up of your source water so maintaining water balance regularly is important.

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 to maintain proper water flow through the system.**

3. **Regularly test water with FROG® Ease Test Strips and follow directions in Step 1 for main balancing.**

4. **Replacing Cartridges**

   Replace FROG® Ease Mineral Cartridge every four months. Replace FROG® Ease SmartChlor Cartridge every three months. Replace FROG® Ease Test Strips every three months. Replace FROG® Ease Cartridge when the factory set dial setting matches your hot tub model number. If needed, you may increase or decrease the dial setting.

   Onset set, the FROG® Ease SmartChlor Cartridge will maintain a low 0.5 ppm chlorine level as long as the water is balanced. Certain hot tubs may require the FROG® Ease SmartChlor Cartridge to stay in place for up to 600 gallons. Use with the FROG® Ease SmartChlor Cartridge in the FROG® Ease SmartChlor Cartridge holder from hot tub by pulling up on the handle. Snap cartridge into one opening of the cartridge holder. With the FROG® Ease logo facing the holder, put the dial of the cartridge into the holder first by connecting the tab on the holder with the indent in the cartridge. Then push the top part of the cartridge into the slot in the holder. For best results insert the FROG® Ease SmartChlor Cartridge into the other opening. When cartridge is snapped in, replace holder between the filter cartridges under deck/ equipment pad. Push in until it snaps into place. Replace the Snap cap later.

Troubleshooting

Cloudy Water or Low-Chlorine Levels

- Check water balance, pH and Total Alkalinity need to be in the proper ranges for the FROG® Ease System to work correctly.
- Check FROG® Ease SmartChlor® Cartridge and replace if empty—are instructions under “Put the System to Work.”
- Check your calendar. The entire FROG® Ease System including the FROG® Ease Mineral Cartridge needs to be replaced every four months. Without the minerals, SmartChlor will not be enough to sanitize the hot tub.
- Check FROG® Ease SmartChlor Cartridge Life

- If hot tub is larger than 400 gallons with significant bather load, you may require a higher dial setting which will shorten the cartridge life.

- If you think the cartridge setting is too high, you can turn the dial setting down 1 number and monitor chlorine levels for a few days while maintaining water balance. If needed, turn dial down again.

High Chlorine Levels

- This is highly unlikely with the FROG® Ease System because SmartChlor is self-regulating. However, if you use standard test strips, it may appear that total chlorine is higher than the free chlorine.

- No worries—the strip is measuring the SmartChlor reserve, which will shift to free chlorine as needed.

- With the silver FROG® Ease SmartChlor® Cartridge facing the inside of the hot tub, insert cartridge holder between the filter cartridges under deck/equipment pad. Push in until it snaps into place.

- Clean filter following manufacturer’s directions. May be used with a previously filled hot tub unless it was sanitized with bromine or biguanides. Then drain and fill the hot tub with fresh water before using this product. Adjust pH following the directions on that product. Set the FROG® Ease Mineral Cartridge to setting number 4. Using the System: Remove filter snap cap and weir door / filter plate. Remove cartridge holder from hot tub by pulling up on the handle. Snap cartridge into one opening of the holder. With the FROG® Ease logo facing the holder, put the dial of the cartridge into the holder first by connecting the tab on the holder with the indent in the cartridge. Then push the top part of the cartridge in until it snaps into place. For best results insert the FROG® Ease SmartChlor Cartridge into the other opening. When cartridge is snapped in, replace holder between the filter cartridges under deck/ equipment pad. Push in until it snaps into place. Replace the Snap cap later.

For more information, visit frogproducts.com.