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FROG® Water Care® App



Water Balance Guide for Hot Tubs or Swim Spas

How to get
your water
relaxation
ready!

BEFORE YOU BALANCE - TEST YOUR FILL WATER

STEP 1 FOR TOTAL HARDNESS

Take a sample of the water you plan to use to fill your hot tub or swim spa to your dealer and check for Total Hardness. If over 250 ppm, don't use that water to fill your hot tub! A simple hose filter from your local dealer can solve your issue.

STEP 2 FOR METALS

If it tests high for metals, use a metal out product.

4

TIPS FOR SUCCESSFUL WEEKLY WATER BALANCING

- 1 ALWAYS BALANCE IN ORDER WITH STEP 1: TOTAL ALKALINITY, THEN STEP 2: pH, AND THEN STEP 3: RECHECK TOTAL HARDNESS.

STEP 1

TOTAL ALKALINITY 80-120 PPM



Starting with Total Alkalinity (TA) first will make it much easier to balance the pH.

Low TA: Add TA Increaser or TA Up

High TA: Add the same product that lowers pH usually called pH Decreaser or pH Down

STOP

Proceed to pH ONLY when Total Alkalinity is between 80 and 120 ppm

STEP 2

BALANCE pH 7.2 - 7.6



pH is important for maintaining clean, clear water that doesn't attack surfaces or irritate skin.

Low pH: Add a pH Increaser or pH Up product.

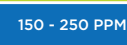
High pH: Add a pH Decreaser or pH Down product.

STOP

Proceed to Total Hardness ONLY when pH is between 7.2 and 7.6

STEP 3

TOTAL HARDNESS



Check Total Hardness AGAIN to make sure the calcium level is not too low so the water does not corrode surfaces.

Low Total Hardness: If Total Hardness is under 150 ppm add Hardness Increaser.

- 2 ADD ADJUSTMENT CHEMICALS IN SMALL INCREMENTS (FOLLOW LABEL DIRECTIONS CAREFULLY).
- 3 WAIT 6 HOURS BETWEEN ADJUSTMENTS SO YOUR ADJUSTMENT CHEMICAL HAS TIME TO WORK.
- 4 IF BALANCING TAKES LONGER THAN 2 DAYS, ADD A CHLORINE SHOCK TO MAINTAIN SANITIZER LEVELS.

When Total Alkalinity is 80-120 ppm, pH is 7.2-7.6
and Total Hardness is 150-250 ppm, your water is balanced.

LEARN MORE AT FROGPRODUCTS.COM 800.222.0169

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Cloudy water	Filter problems	Clean filter cartridge and inspect for integrity issues.
	Microscopic particles or high TDS (>2000)	Rinse off before using the hot tub to remove oils, lotions and hair shampoo/conditioners. Add BRIGHT AND CLEAR to remove particles through filter.
	High Alkalinity (80-120ppm) High pH level	Test pH and Alkalinity and lower if necessary with SPA DOWN.
Skin and/or eye irritation	Low pH (7.2-7.6)	Raise Ph level with SPA UP to eliminate acidic water (itching).
Algae growth	Low sanitizer levels	Shock your spas water with your sanitizer (Renew, Chlorine or Bromine). Brush the spa walls. Run the filter for a 24-hour period to increase distribution of sanitizer and add Spa Algaecide.
Excessive foam	Buildup of body oils or cosmetics.	Rinse off before using the hot tub to remove oils, lotions and hair shampoo/conditioners. Use FOAM DOWN to temporarily break up the contaminants and then to help the filter remove them. If a oily water line is present the spa should be wiped out and the filter cleaned with FILTER CLEANER.. An oil absorbing sponge such as SCUMBUG can help in preventing this.
	Laundry Detergent	Run an extra rinse cycle on the washing machine or re-rinse well by hand.
	Excess organic contaminants	Some organic matter will cause foamy water, FOAM DOWN will temporarily break up the contaminants, then use BRIGHT AND CLEAR to help the filter remove them. It may necessary to drain and refill spa.
	Low or High Calcium Hardness (150-400ppm)	Test water with a TOTAL HARDNESS TEST KIT and if necessary increase. If high, change the water.
Oily water line	Body oils, dirt, soaps	Scum line may be able to be removed with paper towel. Alternating weekly between BRIGHT AND CLEAR and ENZYME along with frequent filter cleanings usually eliminates this problem.
Scaley Waterline	High ph and/or Alkalinity	Lower pH and Alkalinity levels with SPA DOWN or Alkalinity Decreaser specifically to decrease hard water (scale) build-up.
Stains	High Mineral Content	Sequester mineral content with METAL GON and consistent use of STAIN & SCALE CONTROL OR DEFENDER products. One may also use a mineral sanitizer stick.
Unstable pH	Low total alkalinity levels	Test total alkalinity levels with an accurate TEST STRIP OR KIT and if necessary increase with SPA UP.
pH resistant to changing	High total alkalinity levels	Test total alkalinity levels with an accurate TEST STRIP OR KIT and if necessary decrease with SPA DOWN.