

FILTER FROG[®] sanitizes your hot tub by creating



* Compared to the minimum ANSI recommended bromine level of 2.0 in a residential hot tub.

Hot Tub Start-Up



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.



Clean or replace filter cartridge. (Follow manufacturer's instructions).

3. Balance water by following STEPS a – d in order.

IMPORTANT: Always 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.

Total Alkalinity	0	40	80	120	180	240
(ppm) -> Alcalinidad Total						
(mg/L)	VERY LOW MUY BAJO	LOW BAJO	- — IDI	EAL	HIGH ALTO	VERY HIGH MUY ALTO

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

6.2 6.8 7.2 7.8 8.4

Installing FILTER FROG®



1. Set reminder dial on FILTER FROG® to 4 months from month of installation. Turn dial by hand or with a coin if needed.

Diagram B

Or Horizontal

cartridge.

On skimmer filters with 2.5 HP or

larger pump motors, place FILTER FROG[®] in filter well outside the filter

High Flow Hot Tubs In Filter Well

Vertical

If unit is

marks to shorten.

too tall, cut rod at hash

2. Place FILTER FROG[®] in one of the following locations in hot tub:

Diagram A



Insert FILTER FROG® inside filter cartridge core.

If FILTER FROG® is inside a standpipe, attach a string to the FROG® head handle for easy removal.

Do not allow FILTER FROG® to sit too low in the filter. If blocking water flow, install in filter well (Diagram B).

Regular Hot Tub Care



Troubleshooting Most issues are caused by improper water balance or sanitizer levels.

If water is cloudy:



1. Check water balance. Ensure pH, Total Alkalinity and Calcium Hardness are co

Diagram C

Small Cartridge or Other Hot Tubs



Place FILTER FROG® in skimmer tray.

every 4 months. After four months of use or when draining and refilling the hot tub with fresh water, discard the FILTER FROG® in trash even if, refill this container. Do not attempt



4. Shock the hot tub with a non-chlorine shock to regain clarity







d. 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.

If balancing takes longer than 2 days shock the water and maintain a chlorine level while continuing balancing.



Shock hot tub to establish a bromine or chlorine residual of 1.0-2.0 ppm with an EPA approved hot tub shock. For best results use FROG Jump Start® (EPA Reg. #53735-12) start-up hot tub shock packet that quickly dissolves

with an effervescent action - one packet per 500 gallons (Follow manufacturer's directions).

Heat water to the manufacturer's recommended temperature.



As soon as hot tub is prepared begin Regular Hot Tub Care



- 2. Make sure your chlorine or bromine levels are at least 1.0-2.0 ppm.
- 3. Make sure your FILTER FROG® is not older than 4 months as it will be ineffective and more bromine/chlorine will be required to maintain the hot tub until you replace the minerals.

Learn more at www.FrogProducts.com

Product Description: The FILTER FROG® contains a patented mineral formula that destroys bacteria while neutralizing acids, which helps keep the pH in an acceptable range with less monitoring. Using the FROG® Mineral System⁺ with reduced levels of bromine or chlorine improves hot tub pleasure by reducing the problems associated with bromine or chlorine including faded bathing suits, premature damage to hot tub equipment or surfaces and smelly odors.

Replace FILTER FROG® after 4 months or when draining and refilling hot tub with fresh water.



Manufactured by: King Technology, Inc.

530 11th Ave S, Hopkins, MN 55343 U.S.A. 952-933-6118 • Customer Service 800-222-0169 FAX 952-933-2206 www.FrogProducts.com

+ FROG® Mineral System consists of the FROG® minerals silver chloride and carbonate used with 1.0 ppm bromine or chlorine. FILTER FROG® must be used in conjunction with an EPA registered bromine or chlorine hot tub product or a bromine or chlorine delivery device.

Active Ingredient:	Net Wt.: 58 grams
Silver Chloride 0.5%	EPA Reg. No.: 53735-11
Other Ingredients:	EPA Est. No.: 071209-AZ-001

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Made in U.S.A. Patents: www.KingTechnology.com/IP E092816553091643R5N EPA Est. No.: 071209-AZ-001 20-48-0140