

Patented Mineral Hot Tub Disinfectant **Operation Manual**

FROG Filter Mate sanitizes your hot tub by creating



because it kills bacteria two ways Clearer because it helps keep pH balanced Softer because there's up to 50%* less bromine or chlorine Easier it's pre-filled for no mess, or measuring

* Compared to the minimum ANSI recommended bromine or chlorine 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 when dirty. (Follow manufacturer's instructions).

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

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) ->						
	VERY LOW MUY BAJO	LOW BAJO	-IDE	AL	HIGH ALTO	VERY HIGH MUY ALTO

Installing FROG Filter Mate



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

2. Place FROG Filter Mate in one of the following locations in hot tub:

Diagram A

Majority of Hot Tubs



Insert FROG Filter Mate inside filter cartridge core.

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

Do not allow FROG Filter Mate 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

High Flow Hot Tubs In Filter Well

Diagram B





On skimmer filters with 2.5 HP or larger pump motors, place FROG Filter Mate in filter well outside the filter cartridge.

Diagram C

Small Cartridge or Other Hot Tubs



Place FROG Filter Mate in skimmer tray.

Shock the hot tub once a week or

Additional shocking may be required if the hot tub is under

FROG Filter Mate must be replaced every 4 months. After four months of use or when draining and refilling the hot tub with fresh water, discard the FROG Filter Mate in trash even if, upon shaking, it appears there is spent media left inside. Once wetted the time released minerals are effective up to four months. Nonrefillable product. Do not reuse or refill this container. Do not attempt to reuse the product once removed from the hot tub.



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

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.



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 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 600 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 bromine or chlorine levels are at least

1.0-2.0 ppm.

3. Make sure your FROG Filter Mate is not older than 4 months as it will be ineffective and more bromine or chlorine will be required to maintain the hot tub until you replace the minerals.

Learn more at frogproducts.com

Product Description: The FROG Filter Mate is a disinfectant that 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 FROG Filter Mate after 4 months or when draining and refilling hot tub with fresh water.

+ FROG Mineral System consists of the FROG minerals silver chloride and carbonate used with 1.0 ppm bromine or chlorine. FROG Filter Mate 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.



Manufactured by: King Technology

530 11th Ave S, Hopkins, MN 55343 U.S.A.

952-933-6118 • Customer Service 800-222-0169 frogproducts.com

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