



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

53735-18

Date of Issuance:

5/22/25

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Frog Minerals

Name and Address of Registrant (include ZIP Code):

Abigail T.D. Wacek, Managing Director
Consultant for King Technology, Inc.
c/o Technology Sciences Group Inc.
1150 18th Street, NW, Suite 1000
Washington, D.C. 20036
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Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Steven Snyderman, Product Manager 33
Regulatory Management Branch II
Antimicrobials Division (7510M)
Office of Pesticide Programs

Date:

5/22/25

2. You are required to comply with the data requirements described in the DCI Order identified below:

- a. Silver Chloride: GDCI-072506-1834; GDCI-072506-1827

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Order listed above, you may contact the Reevaluation Team Leader (Team 36): <https://www.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobials-division>

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 53735-18."
5. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 01/24/2025

If you have any questions, please contact Srinivas Gowda by phone at 202-565-0078, or via email at gowda.srinivas@epa.gov.

Enclosure: Final Stamped Label

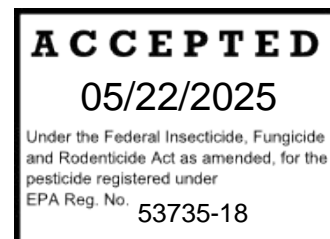
[All text in braces {xxx} is optional and may or may not be included on a final label.]

[All text in brackets [xxx] is administrative and will not appear on a final label.]

[Note to reviewer: All references of hot tub are interchangeable with the word spa]

[Master Label] FROG Minerals

[Front Panel]



FROG Minerals

{PATENTED} MINERAL {POOL} {HOT TUB} {SANITIZER} {DISINFECTANT} {REPLACEMENT}

{The Complete Low Chlorine Alternative+}
{The Complete Low Bromine {or Chlorine} Alternative+}

{The {Brand} Mineral {System} {Technology} {Formula}+ reduces {chlorine} {bromine} use up to 50%*}

{Up to 50%* Chlorine Reduction with {Brand} Mineral System}
{Up to 50% reduction in {bromine} or {chlorine} use*}

{Eliminates daily dosing for less work}

{The {Brand} Mineral {System} {Technology} {Formula}+ Improves Water Quality By:}

- {Destroying bacteria for improved clarity}
- {Helping to maintain a neutral pH}
- {Reducing {chlorine} {bromine} use for softer water}

{Fresh Mineral Water[∞]}

[∞] Cleaner, Clearer and Softer water for pools, hot tubs and swim spas

KEEP OUT OF REACH OF CHILDREN

CAUTION

{See {Side Panel or} Enclosed {Product Label {and} {Instruction Manual} for Complete Directions for Use}

Active Ingredient:

Silver Chloride ----- 1.5%

Other Ingredients: ----- 98.5%

Total: ----- 100.0%

Net Wt.: _____ {lbs} {oz} {grams}

EPA Reg. No.: 53735-RI

EPA Est. No.: xxxxx-xx

Manufactured for: King Technology, Inc., 6000 Clearwater Dr, Minnetonka, MN 55343
{kingtechnology.com} {frogproducts.com} {800-222-0169}

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[Disclosure Statements]

[Disclosure Statements 1 for Product Description #1: Pool Cartridge, Product Description #2: Pool Skimmer Application, Product Description #3: Floating Pool Cartridge and Product Description #4: Pool Cartridge for Bulk Chlorinator]

+ {Brand} Mineral {System} {Technology} {Formula} consists of the {Brand} minerals silver chloride and carbonate used in conjunction with 0.5 ppm chlorine. The FROG Minerals {cartridge} {pac} {chamber} must be used in conjunction with {53735-2 Brand Name}, {an EPA registered chlorine pool product or a chlorine delivery device}.

*Compared to the minimum EPA recommended chlorine level of 1.0 ppm for a stabilized swimming pool.

[Disclosure Statements 2 for Product Description #5: Hot Tub Cartridge for In-Line or Floating System and Product Description #6: Filter Hot Tub Product – all products used with 53735-10 or 53735-16]

+ {Brand} Mineral {System} {Technology} {Formula} consists of the {Brand} minerals silver chloride and carbonate used with 1.0 ppm bromine {or chlorine}. The FROG Minerals {cartridge} {pac} must be used in conjunction with {the {53735-10 or 53735-16 Brand Name} ,} an EPA registered bromine {or chlorine} hot tub product or a bromine {or chlorine} delivery device.

*Compared to the minimum ANSI recommended {bromine} or {chlorine} level of 2.0 ppm for a hot tub.

[Disclosure Statements 3 for Product Description #7: Hot Tub Floating/Flipping System, Product Description #8: Hot Tub In-Line System, Product Description #9 Hot Tub Filter Well Systems and Product Description #10 Swim Spa System – all products used with 53735-14]

+ {Brand} {Mineral} {System} {Technology} {Formula} consists of the {Brand} minerals silver chloride and carbonate used with 0.5 ppm of {53735-14 Brand Name}. The FROG Minerals must be used in conjunction with the {53735-14 Brand Name}.

*Compared to the minimum ANSI recommended {bromine} or {chlorine} level of 2.0 ppm for a hot tub{swim spa}.

[Disclosure Statements for All Product Descriptions]

∞ Cleaner, Clearer and Softer water for pools, hot tubs and swim spas

[Storage and Disposal Statements]

[Storage and Disposal Statement 1 for All Pool Applications: Pool Cartridge, Pool Skimmer Application, Floating Pool Cartridge and Pool Cartridge for Bulk Chlorinator]

STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage or disposal.

Storage: Keep this product dry in original tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat.

Pesticide Disposal: After six months of use {or one pool season whichever is shorter}, discard FROG Minerals in trash even if it appears there is spent media left inside. Once wetted the time-released minerals in the cartridge are effective up to six months.

Container Handling: Non-refillable container. Do not reuse or refill this container. {Do not attempt to reuse the {Reservoir} {cartridge} {pac} {hemisphere} {replacement} once removed from the {Brand Cycler} {skimmer} {floating Brand system} {pool}}. In the unlikely event that a {Reservoir} {cartridge} {pac} {hemisphere} {replacement} should break and release raw minerals into the pool - vacuum out.

[Storage and Disposal Statement 2 for All Hot Tub Applications: Hot Tub Cartridge for In-Line and Floating System, Filter Hot Tub Product, Hot Tub Floating/Flipping System, Hot Tub In-Line System, Hot Tub Filter Well Systems and Swim Spa System]

STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage or disposal.

Storage: Keep this product dry in original tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat.

Pesticide Disposal: After four months of use, or when draining and refilling the hot tub with fresh water, discard FROG Minerals in trash even if, upon shaking, it appears there is spent media left inside. Once wetted the time-released minerals in the cartridge are effective up to four months.

Container Handling: Non-refillable container. Do not reuse or refill this container. {Do not attempt to reuse the product once removed from the hot tub.}

[Notices]

{NOTICE: To the extent consistent with applicable law, neither King Technology, Inc. nor the seller of this product can accept any responsibility where the product is not used according to directions and for the manner in which it was intended.}

{NOTE: To the extent consistent with applicable law, buyer assumes all responsibility for safety and use not in accordance with directions.}

[Pool Products used with Chlorine or 53735-2]

[Product Description 1 and Directions for Use for Pool Cartridge with 53735-2 Brand Name]

Product Description: The FROG Minerals is the heart of an advanced pool care system that destroys bacteria. The {patented} mineral formula in the FROG Minerals {is a disinfectant that} also neutralizes acids, which helps keep the pH in an acceptable range with less monitoring. The controlled release of minerals provides an optimum level of protection in your pool. The {Brand} Mineral {System} {Technology} {Formula}+ reduces chlorine use up to 50%*. Simply use with at least 0.5 ppm of an EPA registered source of chlorine such as the {53735-2 Brand Name} or a chlorine delivery device. Using the {Brand} Mineral {System} {Technology} {Formula}+ improves {swimming pool pleasure} {your swimming experience} by reducing the problems associated with chlorine including faded bathing suits, premature damage to pool equipment or surfaces and smelly odors. With the {Brand} Mineral Reservoir, pool care is easy and effective. Once wetted, the time-released mineral coating of this product is effective up to 6 consecutive months or one pool season, whichever is shorter. After that time, even if upon shaking you hear the spent media inside, it is no longer effective and must be replaced. Mark the calendar with stickers provided to replace this product.

Replace the FROG Minerals after 6 months.

Directions For Use with {53735-2 Brand Name}:

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

For {use in} {in-ground} {above ground} pools up to {15,000} {20,000} {25,000} {30,000} {35,000} {40,000} gallons. For a complete system, use this product inside the {Brand Name} along with the {53735-2 Brand Name}. This product is compatible with pool chemicals except biguanides. Before inserting the FROG Minerals as the pool maintenance product, balance the pH to between 7.2 and 7.8 and Total Alkalinity between 80-120 ppm and shock the pool with a chlorine shock per the manufacturer's directions. Then follow the directions below:

1. Turn circulation pump off, turn control dial to {the lowest setting} {Pac Removal} {Setting {0} or {Off} depending on your model} and remove cap {from Brand System}.
2. Line up slot on the side of the FROG Minerals with the fin inside the {Brand System} and lower {FROG Minerals} into the {Brand System}.
3. If using the {53735-2 Brand Name}, insert into the center of this product according to the directions on its label then replace the cap on the {Brand System} and turn pump back on. Set the control dial on the {Brand System} per the size and pump run time of your pool according to the chart in the manual.

Directions for Use with Alternate Source of Chlorine: If using an alternative EPA registered source of chlorine, follow steps 1 and 2 above then replace the {Brand System} cap, set the control dial to {the highest setting} {Maximum}, {Setting {10} {5} or {On} depending on your model} and turn pump back on. Maintain recommended chlorine levels of {at least} 0.5 {to 1.0} ppm in the pool.

DO NOT USE ANY OTHER {PAC} {CHLORINE CHAMBER} OR BULK CHEMICAL INSIDE THE MINERAL RESERVOIR. DAMAGE TO THE RESERVOIR, POOL OR OTHER EQUIPMENT COULD RESULT.

[Operational Instructions for Product Description 1 Pool Cartridge used with 53735-2 Brand Name]

[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

**FROG Minerals:
{Patented} Mineral Pool {Sanitizer} {Disinfectant}**

Operational Instructions

**REPLACE EVERY 6 MONTHS OR
AFTER ONE POOL SEASON WHICHEVER IS SHORTER.**

{Brand} Sanitizing Minerals with up to 50% less chlorine* creates Fresh Mineral Water[∞] that provides the benefits of cleaner, clearer and softer water that's easier to take care of. The water feels soft and doesn't fade swimsuits, damage equipment or create smelly odors.

Step One: Preparing the Pool

1. Make sure the pool has adequate circulation. The total volume of pool water must completely circulate through the pump and filter at least 1 to 2 times per day. This usually requires 8 to 12 hours of circulation. Check with your dealer for the proper circulation time for your pool.
2. Check the pool's filter gauge often and periodically clean the filter per the manufacturer's directions. A dirty filter will slow the flow of water which could hamper proper circulation.
3. Check the {Water} {Total} Hardness of your fill water before adding to the pool. If calcium content is higher than 400 ppm find a soft water source to fill your pool instead; otherwise, water balance will be very difficult.
4. If using source water that is high in iron or other metals, see your dealer before filling or topping off the pool. It may require the use of a metal control product.
5. Before beginning with any pool care program, you must first balance your pool water. At spring start-up always circulate the water for at least 24 hours before testing it. Take a water sample to your local pool professional or use a complete test kit {that will} {to} test for the important Water Balance Guidelines. Our recommendation for achieving water balance is to follow steps 5a through 5e in order. **IMPORTANT:** Always follow printed instructions on the balancing chemical packages. Add balancing chemicals in small increments one at a time with circulation running; wait 8-12 hours before testing again and adding any additional balancing chemicals.
 - a. Take a water sample from the pool and dip a {Brand} Test Strip into it.
 - b. Look at the Total Alkalinity reading first. {Use {Brand Name}} {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. After Total Alkalinity is in range, test for pH. It should be between 7.2 and 7.8. If higher or lower, add {Brand Name} {a pH adjuster}.

Water Balance Guidelines

pH:	7.2-7.8
Total Alkalinity:	80-120 ppm
Total Hardness:	200-400 ppm
Total Dissolved Solids:	<1500
{Stabilizer} {/} {Conditioner}:	
{Cyanuric Acid:}	20-80 ppm
Free Chlorine:	0.5-1.0 ppm

- d. Then test your {Calcium} {Water} {Total} Hardness again. It should be between 200 and 400 ppm. {If higher, partially drain the pool and fill with water low in calcium.} If lower {than 200 ppm}, add {Brand Name} {{Calcium} {Hardness} Increaser}. {Always maintain 200-400 ppm.}
- e. Lastly test for {cyanuric acid} {stabilizer} {or conditioner} levels. Add {Brand Name} {cyanuric acid} {stabilizer} {conditioner} if the level is below 20 ppm. This will prevent chlorine burn off. {If {cyanuric acid} {stabilizer} level is above 80 ppm, partially drain water and refill.}

If balancing takes longer than 2 days shock the water {with 53735-13 Brand Name} and maintain a chlorine level while continuing balancing.

6. {After balancing the water,} {If you haven't already added a shock during balancing} {Initially} Shock the pool with {53735-13 Brand Name} {an EPA registered} {a} {chlorine shock only} to {rid the water of} {remove} contaminants and establish a chlorine residual. {Always} Follow the manufacturer's directions carefully. {See the box below for important guidance on shocking.}

NOTE: THIS STEP IS VERY IMPORTANT TO START-UP. USE CHLORINE SHOCK ONLY.

{IMPORTANT: {Do not add shock in or near the skimmer or into the {Brand System} as it could damage equipment, risk potential explosion or discolor your pool surface.} Never add any other types of chlorine, pH adjusters, shock treatments or algaecides through the skimmer. These products should be added directly into the pool if required. Never use fast dissolving chlorine tablets, liquid bleach, or calcium hypochlorite in the {Brand System}.}

Step Two: Putting The System To Work

1. Install a FROG Minerals into the {Brand System}. (See page x for directions.)

REPLACE THE FROG Minerals EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER. {After that time, you will hear the spent media inside, however it is no longer effective and must be replaced.}

2. Replace cap and run {Brand System}, with FROG Minerals inserted, for 10 minutes {at} {on} {Setting} {Maximum}, {10} {5} {or On} {depending on the model} {the highest setting}.
3. [FOR BRAND L ONLY] {Shock the pool with {non-chlorine shock pac Brand Name}} {Dispense {non-chlorine shock pac Brand Name} through the FROG Minerals} to rid the water of all contaminants. (See page x for directions.)
4. [FOR BRAND L ONLY] {Create a chlorine residual with {53735-13 Brand Name}} {or a chlorine shock} {Dispense {53735-13 Brand Name} through the FROG Minerals to create an initial chlorine residual} (See page x for directions.) This step is very important to start-up. Always begin with chlorine in the pool water.
5. {Test the water before adding {53735-9 Brand Name}} {When the pH is between 7.2-7.8 and the chlorine level is no more than 4.0 ppm,} {For {a} {an} {90-day} algae protection guarantee, Insert {53735-9 Brand Name} into FROG Minerals {in Brand System}. (See page x for directions.)}
6. When chlorine reading is down to 1.0 ppm, which may take a few days, insert {53735-2 Brand Name}. (See page x for directions.)

Step Three: Setting the Control Dial

This system is designed to work effectively with a variety of pool equipment as long as the basic procedures below are followed.

1. Set control dial by matching up the parameters of your pool on the charts below. THIS IS A STARTING POINT ONLY and may need to be adjusted to fit your individual pool needs. See # {x} for directions.

Using Model xxxx		SINGLE-SPEED PUMP OR HIGH-SPEED PUMP RUN TIME											
		8 HOUR PUMP RUN TIME				12 HOUR PUMP RUN TIME				24 HOUR PUMP RUN TIME			
		PUMP SIZE				PUMP SIZE				PUMP SIZE			
Gallons	Diameter	1/2 hp	3/4 hp	1 hp	1 1/2 hp	1/2 hp	3/4 hp	1 hp	1 1/2 hp	1/2 hp	3/4 hp	1 hp	1 1/2 hp
7,000	(18')	5.0	4.5	4.0	3.5	4.5	4.0	3.0	5.0^	3.5	3.0	2.5	4.0^
9,000	(21')	5.5	5.0	4.5	4.0	5.0	4.5	4.0	5.5^	4.0	3.5	3.0	4.5^
12,000	(24')	6.0	5.5	5.0	4.5	5.5	5.0	4.5	4.0	4.5	4.0	3.5	5.0^
15,000		NR	6.0	5.5	5.0	6.0	5.5	5.0	4.5	5.0	4.5	4.0	3.5
20,000		NR	NR	6.0	5.5	NR	6.0	5.5	5.0	5.5	5.0	4.5	4.0
25,000		NR	NR	6.5	6.0	NR	6.5	6.0	5.5	6.0	5.5	5.0	4.5

Using Model xxxx		SINGLE-SPEED PUMP OR HIGH-SPEED PUMP RUN TIME											
		6 HOUR PUMP RUN TIME				12 HOUR PUMP RUN TIME				24 HOUR PUMP RUN TIME			
		PUMP SIZE				PUMP SIZE				PUMP SIZE			
Gallons	Diameter	3/4 hp	1 hp	1 1/2 hp	2 hp	3/4 hp	1 hp	1 1/2 hp	2 hp	3/4 hp	1 hp	1 1/2 hp	2 hp
7,000	(18')	4.0	3.5	3.0	3.0^	3.0	2.5	4.0^	3.5^	1.5	3.5^	3.0^	2.5^
9,000	(21')	4.5	4.0	3.5	3.0	3.5	3.0	2.5	4.0^	2.5	4.0^	3.5^	3.0^
12,000	(24')	5.0	4.5	4.0	3.5	4.0	3.5	3.0	2.5	3.0	2.5	1.5	3.5^
15,000		NR	5.0	4.5	4.0	3.5	3.0	2.5	2.0	2.5	2.0	1.5	1.0
18,000		NR	5.0	4.5	4.0	5.0	4.0	3.5	3.0	3.5	3.0	2.5	2.0
25,000		NR	NR	5.0	4.0	NR	5.0	4.0	3.5	4.0	3.5	3.0	2.5
30,000		NR	NR	6.0	5.0	NR	5.5	5.0	4.0	4.5	4.0	3.5	3.0
35,000		NR	NR	7.0	6.0	NR	6.5	5.5	5.0	5.5	4.5	4.0	3.5
40,000		NR	NR	NR	7.0	NR	NR	6.5	5.5	6.5	5.5	4.5	4.0

* Bypass installation recommended. NR - This pump size is not recommended for this size pool. Recommended flow rate: 20-80 gpm

[NOTE: Setting numbers on these charts may vary by model.]

{IMPORTANT: {If using a multi-speed pump,} Pump run times of at least 6 hours per day at high speed are recommended for proper performance. If running low speed only or on high speed less than 6 hours, please follow the 24-Hour Low Speed directions below:

24-HOUR LOW SPEED PUMP RUN TIME

In order to ensure proper performance when running on low speed for 24 hours per day or high speed less than 6 hours per day, bleed the air while the pump is on by unscrewing the {cap} {or} {back} knob until water appears. Then screw the knob back {on} {in}. Repeat this process each time the cap is removed for any reason. Set the control dial at #6 and follow the adjustment directions in Step 2 to determine the correct setting for your pool.}

2. For the first week test the pool water daily for free chlorine {with {Brand} Test Strips} to ensure correct dial setting. Continue to test weekly throughout the season. After testing, adjust the dial up by ½ increment if the free chlorine reading has dropped below 0.5 ppm or down by ½ increment if the reading has risen above 1.0 ppm. Continue this process each day until the {{free chlorine} reading stabilizes to at least 0.5 ppm.} {color on the test strip matches the ideal {Brand} range of 0.5 ppm to 1.0 ppm chlorine.} Remember to adjust dial by ½ increments only, in order to prevent over chlorination which may bleach pool surfaces.

If using another means of chlorine

1. {Set the {Brand System} to} {Maintain Setting} {of} {10} {5} {or On} {depending on the model} {the highest setting}.
2. Maintain a minimum chlorine reading of 0.5 ppm with a chlorine delivery device or hand feeding.
3. No adjustments needed.

Step Four: Routine Pool Care

- Run filtration system enough hours to circulate all water 1 to 2 times per day. More than that could result in over chlorination.
- Regularly test water with {Brand} Test Strips to maintain pH and Total Alkalinity.

NOTE: Water balance is affected by bather load, chemical usage, evaporation and the makeup of source water so maintaining water balance regularly is important.

- Maintain 0.5 to 1.0 ppm free chlorine level at all times.

NOTE: {Chlorine levels are lower only when used with FROG Minerals} {These lower chlorine levels are only acceptable when using {Brand} minerals.}

- Shock the pool every other week or as needed {with Brand Name} {with a non-chlorine shock}. We recommend a non-chlorine shock as reducing chlorine use is the goal of {Brand} products. {However, using a chlorine shock is ok too.} {Additional shocking may be required if the pool is under heavy use, high heat or rain.}
- Before closing the pool for winter, use the {53735-9 Brand Name} {53735-9 Brand Name and 53735-13 Brand Name} following the {directions {on the pac label} {below}} {same directions as {53735-9 and 53735-13 Brand Name} on page x.}
- Remember to replace FROG Minerals and all other {Brand} replacements as directed.

Replacing a FROG Minerals

1. Make sure you have the correct FROG Minerals to fit your {Brand System}. {The FROG Minerals will fit {Brand Model XXXX} {and} {Brand Models XXXX and or XXXX.}}

THE FROG MINERALS MUST BE REPLACED EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER.

2. IMPORTANT: Remove and read the inserted information card.

{IMPORTANT:

USE ONLY the factory recommended replacement FROG Minerals, {53735-9 Brand Name} {and} {53735-2 Brand Name} {and {53735-9 and 53735-13 Brand Name}}. DO NOT USE any other {pac} {chamber} or bulk chemical tablets in the {Brand System} {or put anything inside other than the appropriate {Brand} product as directed in the product instructions}. Use of any other product could result in damage to pool equipment or surfaces, fire or explosion. Warranty will be void if the correct {Brand products} {FROG Minerals, {53735-9 Brand Name} {and} {53735-2 Brand Name} {and {53735-9 and 53735-13 Brand Name}}} are not used.}

3. Turn off pump and turn dial to {Setting {0} {or Off} depending on the model} {lowest setting}.
4. Open cap. If using {53735-2 Brand Name}, stand back to avoid inhaling chlorine fumes.

5. Find slot on side of FROG Minerals and line up with fin inside the {Brand System}. Lower FROG Minerals into {Brand System} until secure.

[Image Callouts] Slot in FROG Minerals, Fin inside of {Brand System}

Mark your calendar for the six-month replacement of the FROG Minerals. Once wetted, the time-released mineral coating is effective up to 6 consecutive months or one pool season whichever is shorter. After that time, even if you hear the spent media inside, it is no longer effective and must be replaced.

[FOR BRAND L ONLY] Using the {53735-9 and 53735-13 Brand Name} and {Non-Chlorine Shock Brand Name}

{Non-Chlorine Shock Pac Brand Name} is a one-time start-up product used to rid the water of contaminants.

{53735-13 Brand Name} {is also used at start up and} sets the {initial} chlorine residual to help find the proper dial setting {for maintaining up to 50%* less chlorine}.

{53735-9 Brand Name} offers a 90-day Algae Protection Guarantee. {{53735-9 Brand Name} is also sold separately.}

IMPORTANT: Avoid sparks, open flames or smoking when handling the {{Non-Chlorine Shock Pac Brand Name} and {53735-13 Brand Name}} {53735-2 Brand Name}.

Start by using {Non-Chlorine Shock Pac Brand Name} first.

1. To remove colored caps, grab on to the lip of one cap with a pliers and pull up until cap releases. Repeat the process for the other cap.
2. Turn {pac} {chamber} over and shake slightly until ingredients fall into tower areas.
3. Line up the small leg of the {pac} {chamber} with the small opening in the FROG Minerals and large leg with the large opening. Lower {pac} {chamber} into FROG Minerals until secure.
4. Replace cap by hand only. DO NOT OVER TIGHTEN.
5. Turn control dial on {Brand System} to the highest
6. Run the pump and filter for each {pac} {chamber} according to the directions on the product label. Remove from the {Brand System} when empty and discard or offer for recycling if available.
7. Repeat steps 1 through 6 for {53735-13 Brand Name}.

The {chlorine} {pacs} {chambers} are made of HDPE plastic. Non-refillable container. Do not reuse or refill this container. Rinse thoroughly before discarding in trash or offer{ing} for recycling if available.

[Image Callouts]: Top View, {Pac} {Chamber} Towers, {Brand System} {53735-9 and 53735-13 Brand Name} {pacs} {chambers}.

Using {53735-9 Brand Name} FOR AN ALGAE-PROTECTION GUARANTEE

For a preventative dose, add one {53735-9 Brand Name} for pools up to 15,000 gallons or two {53735-9 Brand Name} for pools between 15,000 and 30,000 gallons.

1. Remove cap from {53735-9 Brand Name} without removing seal.
2. Insert upside down into center of FROG Minerals pushing down firmly on {53735-9 Brand Name} bottle allowing key in {Brand System} to puncture seal.

3. Replace cap by hand only. DO NOT OVER TIGHTEN. Turn control dial {on Brand System} to the highest setting.
4. Turn pump on for 90 minutes allowing {53735-9 Brand Name} to circulate through pool.
5. To remove {53735-9 Brand Name}, turn pump off, turn dial to lowest setting and remove cap.
6. Lift {53735-9 Brand Name} up to allow any water in the container to drain through the {Brand System} before discarding in trash or offering for recycling if available.

{If pool size requires additional {53735-9 Brand Name}, repeat steps x-x.}
 Mark your calendar for the 90-day replacement of {53735-9 Brand Name}
 See {53735-9 Brand Name} product labeling for complete directions for use.

Using The {53735-2 Brand Name}

{53735-2 Brand Name} X lb. for use in the {Brand System} {Models A and B}

IMPORTANT: Avoid sparks, open flames or smoking when handling the {{Non-chlorine Shock Pac Brand Name} and {53735-13 Brand Name}} {53735-2 Brand Name} {a chlorine {pac} {chamber}}.

1. Turn pump off. Turn control dial to {lowest setting. Remove cap from {Brand System} and stand back to let any chlorine fumes dissipate.

2. Open {Pac} {Chamber}

2a. {53735-2 Brand Name} {x lb.}

To remove colored caps, grab on to the lip of one cap with a pliers and pull up until cap releases. Repeat the process for the other cap.

2b. {53735-2 Brand Name} {x lb.} {Model #}

Find the indent in the plastic handle and cut using a 2" PVC cutter. Make sure the blade comes straight across on the indent line for a clean cut. If openings are pinched together, open with fingers or re-cut closer to the colored screens inside the {53735-2 Brand Name}. Leave at least ¼" of plastic to fit into the {Brand System}.

[Image Callouts] Colored Caps, Avoid pinched opening, A correct oval opening

2c. Invert {53735-2 Brand Name} and shake slightly until chlorine tablets fall into tower areas.

[Image Callouts] {53735-2 Brand Name} {Model #} {2 lb.} {4 lb.} Towers

3. Insert {pac} {chamber} into {Brand System}

3a. {53735-2 Brand Name} {x lb.}

{For 53735-2 Brand Name:} Line up the small leg {of {53735-2 Brand Name}} with the small opening in the FROG Minerals and large leg with the large opening. Lower {pac} {chamber} until secure.

3b. {53735-2 Brand Name} {x lb.} {Model #}

Line up the openings in the {pacs} {chambers} with the keys in the {Brand System}. NOTE: Openings are a different shape than keys. Lower {pac} {chamber} until secure.

[Image Callouts] Opening in {53735-2 Brand Name}, Key in {Brand System}

4. Replace cap by hand only. Do not over tighten.

5. The chlorine {pacs} {chambers} are made of HDPE plastic. Non-refillable container. Do not reuse or refill this container. Rinse thoroughly before discarding in trash or offer{ing} for recycling if available.
6. Once you know how long your {pacs} {chambers} last, mark your calendar for the approximate replacement times for the {53735-2 Brand Name}.

{FOR MODEL{S} {# or Name}}

Cap removal is easier if using the tool included with the {Brand System}. To loosen cap, place cap tool on cap and hit the handle with the flat of your hand counterclockwise. DO NOT USE CAP TOOL TO TIGHTEN CAP.}

Troubleshooting

Cloudy Water or Low Chlorine Levels

- Check water balance. Ensure pH, Total Alkalinity, {Calcium} {Total} Hardness and {Stabilizer} {Cyanuric Acid} levels are correct.
- Check {53735-2 Brand Name}. If empty, replace following directions on the label.
- Make sure your FROG Minerals is not older than 6 months as it will be ineffective, and more chlorine will be required to maintain the pool until you replace the FROG Minerals.
- Turn the {Brand} system dial up or run your pump longer per day to increase chlorine output.
- Shock the pool to regain clarity.

High Chlorine Levels

- Remove the chlorine {pac} {chamber} from the {Brand} System until the chlorine level is down to 1.0 ppm.
- Lower the dial setting on the {Brand} System by 1 number.
- Test in 24 hours. Repeat process until chlorine level stays within 0.5 to 1.0 ppm.

Algae

- Use an {Brand Name} {algaecide} following manufacturer's directions carefully. This may involve more than one dose.
- Run circulation 24 hours a day and brush the sides of the pool often
- When clarity starts to return shock the pool
- To prevent algae for 90 days, try {53735-9 Brand Name} and its Algae Protection Guarantee.

Learn more at {kingtechnology.com} {frogproducts.com} or call 800-222-0169

Ver la versión en español de este manual en frogproducts.com

Register your FROG Minerals at {kingtechnology.com} {frogproducts.com}

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Product Description 2a and Directions for Use for Pool Skimmer Application used with any EPA registered source of chlorine]

Product Description: FROG Minerals {is a disinfectant that} destroys bacteria. The {patented} mineral formula in the FROG Minerals {is a disinfectant that} also neutralizes acids, which help keep the pH in an acceptable range with less monitoring. The controlled release of minerals provides optimum protection in the pool. The {Brand} Mineral {System} {Technology} {Formula}+ reduces chlorine use up to 50%*. Use FROG Minerals with at least 0.5 ppm of an EPA registered source of chlorine or a chlorine delivery device. Using the {Brand} Mineral {System} {Technology} {Formula}+ with reduced chlorine levels improves {swimming pool pleasure} {your swimming experience} by reducing the problems associated with chlorine including faded bathing suits, premature damage to pool equipment or surfaces and smelly odors. With FROG Minerals, pool care is easy and effective. Once wetted, the time-released mineral coating of this product is effective up to 6 consecutive months or one pool season whichever is shorter. After that time, even if upon shaking you hear the spent media inside, it is no longer effective and must be replaced.

Replace FROG Minerals after 6 months.

Directions for Use:

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

For in-ground pools up to 25,000 gallons. This product is compatible with pool chemicals except biguanides. Before using FROG Minerals as the pool maintenance product, balance the pH to between 7.2 and 7.8 and Total Alkalinity between 80-120 ppm and shock the pool with a chlorine shock per the manufacturer's directions. Then follow the directions below:

1. Set reminder dial on FROG Minerals to 6 months from date of installation. Turn dial by hand or with a coin if needed.
2. Remove skimmer cover.
3. Remove skimmer basket handle if necessary and insert FROG Minerals into the skimmer basket.
4. If using FROG Minerals with a suction side automatic cleaner installed through the skimmer, it will be necessary to use a vac plate that may come with the skimmer or automatic cleaner.
5. Once installed, maintain recommended chlorine levels of 0.5 to 1.0 ppm in the pool by using an EPA registered source of chlorine approved specifically for swimming pools or a chlorine delivery device.

**[Operational Instructions for Product Description 2a for Pool Skimmer
Application used with any EPA registered source of chlorine]
[All text is optional] [Representative icons/graphic images may be represented
next to each step of the instructions]**

FROG MINERALS

{Patented} Mineral Disinfectant Instruction for In-Ground Pools Instruction Manual

Up to 50% reduction in chlorine use.*
Eliminates daily dosing for less work
Fresh Mineral Water[∞]

Specifications

For in-ground pools {ONLY}. Not to be used in above ground pools.
Lasts 6 months once product is wetted.
Easy to set reminder dial for product replacement.
Reduces chlorine use up to 50%*
(With chlorinator or floater turn setting down or use fewer tablets.)

Step One – Preparing the Pool

1. Make sure the pool has adequate circulation. For pools the water must completely circulate through the pump and filter at least 1 to 2 times per day. This usually requires 8 to 12 hours but check with your dealer to make sure.
2. Check the pool's filter gauge often and periodically clean filter per the manufacturer's directions. A dirty filter will slow the flow of water which could hamper proper circulation.
3. Check the {Water} {Total} Hardness of your fill water before adding to the pool. If calcium content is higher than 400 ppm find a soft water source to fill your pool instead; otherwise, water balance will be very difficult.
4. If using source water that is high in iron or other metals, see your dealer before filling or topping off a pool. It may require the use of a metal control product.
5. Before beginning with any water care program, you must first balance your water. {At spring start-up for pools always circulate the water for at least 24 hours before testing it.} Take a water sample to your local pool professional {or use a complete test kit} that will test for the important Water Balance Guidelines. Our recommendation for achieving water balance is to follow steps a through e in order. **IMPORTANT:** Always follow printed instructions on the balancing chemical packages. Add balancing chemicals in small increments one at a time with circulation running and wait 8-12 hours before testing again and adding any additional balancing chemicals.

Water Balance Guidelines

pH:	7.2-7.8
Total Alkalinity:	80-120 ppm
Total Hardness:	200-400 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	20-80 ppm
Free Chlorine:	0.5-1.0 ppm

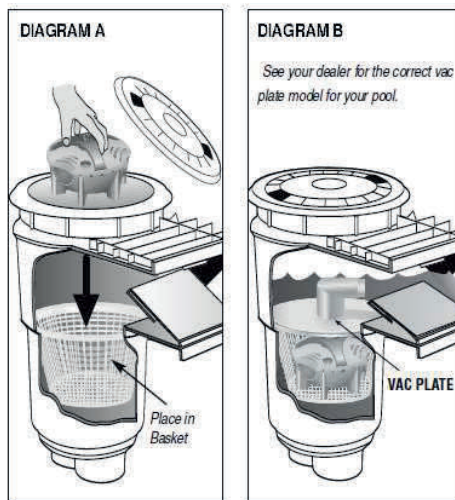
- a) Take a water sample from the pool and dip a {Brand} Test Strip into it.

- b) Look at the Total Alkalinity reading first. {Use {Brand Name}} {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) After Total Alkalinity is in range, test for pH. It should be between 7.2 and 7.8. If higher or lower, add {Brand Name} {a pH adjuster}.
- d) Then test for {Calcium} {Total} Hardness again. It should be between 200 and 400 ppm. {If higher, partially drain the pool and fill with water low in calcium.} If lower, add {Brand Name} {Calcium Hardness Increaser}.
- e) Lastly test the cyanuric acid levels. Add cyanuric acid if the level is below 20 ppm. This will prevent chlorine burn off in the pool.

If balancing takes longer than 2 days shock the water {with 53735-13 Brand Name} and maintain a chlorine level while continuing balancing. Follow manufacturer's directions carefully.

After balancing the water, {if you haven't already added a shock during balancing} shock the pool with {53735-13 Brand Name} {an EPA registered chlorine shock} to rid the water of all contaminants. **NOTE: THIS STEP IS VERY IMPORTANT TO START-UP. USE CHLORINE SHOCK ONLY.**

Step Two: Putting the System to Work



1. Set reminder dial on the FROG Minerals to 6 months from date of installation. Turn dial by hand or with a coin if needed. [Callout: Set for 6 mos.]

2. {Remove skimmer cover and skimmer basket handle if applicable. {{Insert} {Drop} the FROG Minerals into skimmer basket. **DIAGRAM A** {Remove pump lid. Insert FROG Minerals into the pump basket. **DIAGRAM A**}

3. If using the FROG Minerals with a suction side automatic cleaner installed through the skimmer, it will be necessary to use a vac plate that may come with the skimmer or automatic cleaner. **DIAGRAM B**

Step 3: {Regular} {Routine} Pool Care

1. Run pump and filter at least 8 hours per day.
2. Regularly test water for pH, Total Alkalinity and chlorine levels.
3. Maintain at least 0.5 ppm chlorine level at all times. A chlorinator or floater is recommended. If using chlorine pucks in the skimmer basket, place them under FROG Minerals.
4. Shock pool every two weeks or as needed {with Brand Name} to maintain water quality. Follow label directions on the shock treatment used.
5. Check filter gauge regularly and clean or back-wash when needed per the manufacturer's directions.
6. Periodically clean {skimmer} {pump} basket of excess debris as normal.

REMEMBER TO REPLACE THE FROG MINERALS EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER.

Troubleshooting

Cloudy Water or Low Chlorine Levels

- Check water balance. Ensure pH, Total Alkalinity, Total Hardness and Cyanuric Acid levels are correct.
- Make sure your chlorine level in the pool is at least 0.5 to 1.0 ppm.
- Make sure your FROG Minerals is not older than 6 months as it will be ineffective, and more chlorine will be required to maintain the pool until you replace the FROG Minerals.
- Consider increasing the circulation pump run time per day.
- Shock the pool to regain clarity.

Algae

- Use {Brand Name} {an algaecide} following manufacturer's directions carefully. This may involve more than one dose.
- Run circulation 24 hours a day and brush the sides of the pool often.
- When clarity starts to return shock the pool.
- To prevent algae for 90 days, try {53735-9 Brand Name} {53735-17 Brand Name} and its Algae Protection Guarantee.

{To} Learn more {visit} {at} {kingtechnology.com} {frogproducts.com} {or call 800-222-0169} {and visit the {53735-9 Brand Name} and {Brand} Test Strips pages}

Ver la versión en español de este manual en frogproducts.com

Register your FROG Minerals at {kingtechnology.com} {frogproducts.com}

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Product Description 2b and Directions for Use for Pool Pump Basket or Skimmer Application used with any EPA registered source of chlorine]

Product Description: Frog Minerals {is a disinfectant that} destroys bacteria while reducing chlorine use up to 50%*. Using less chlorine improves your swimming experience by reducing the problems associated with chlorine including faded bathing suits, premature damage to pool equipment or surfaces and smelly odors. With Frog Mineral Technology+, pool care is easy and effective. {Ideal for use with {53735-17 Brand Name} for {6 month} {90 Day} algae control.}

Replace Frog Minerals after 6 months or one pool season whichever is shorter.

Directions for Use:

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

For {any} pool{s} up to {10,000} {15,000} {20,000} {25,000} {30,000} gallons. This product is compatible with pool chemicals except biguanides. Before using Frog Minerals as the pool maintenance product with a low level of chlorine, balance the pH to between 7.2 and 7.8 and Total Alkalinity between 80-120 ppm and shock the pool with a chlorine shock per the manufacturer's directions. Then follow the directions below:

1. {Set reminder dial on Frog Minerals to 6 months from date of installation.} {Rotate IN window to month of installation. See OUT window for replacement month.}
2. Turn pump off and remove pump lid or skimmer cover.
3. {Insert} {Place} Frog Minerals into the pump or skimmer basket.
 - a. If using Frog Minerals in a skimmer basket that has a suction side automatic cleaner installed, it will be necessary to use a vac plate that may come with the skimmer or automatic cleaner.
4. Replace pump lid or skimmer cover and turn pump back on.
5. Once installed, maintain recommended chlorine levels of 0.5 to 1.0 ppm in the pool by using an EPA registered source of chlorine approved specifically for swimming pools or a chlorine delivery device.

{Read entire operating instructions for complete directions for use}

[The following copy may be engraved on the Product 2b plastic container]

Not A Toy

Keep Out of Reach of Children

CAUTION

EPA Reg. No.: 53735-RI

JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC

IN

OUT

Replace every 6 months

{kingtechnology.com}

Patents: {kingtechnology.com/IP}

[Operational Instructions for Product Description 2b for Pool Pump Basket or Skimmer Application used with any EPA registered source of chlorine]

[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

{Brand System} Operating Manual

{Brand} Sanitizing Minerals with up to 50% less chlorine* creates Fresh Mineral Water[∞] that provides the benefits of cleaner, clearer and softer water that's easier to take care of. The water feels soft and doesn't fade swimsuits, damage equipment or create smelly odors.

Step One: Preparing the Pool

1. At start-up circulate the water for at least 24 hours before balancing. Then, typically, 8 to 12 hours per day for the season.
2. Clean or backwash the filter per the manufacturer's directions before using this product.
3. Take a sample of your fill water to a pool professional to check Total Hardness and iron or metal content before adding any water to the pool. If higher than 400 ppm hardness, it may be helpful to find a soft water source to fill or top off your pool in the spring. You may also require a metal control product before balancing.
4. Using FROG Test Strips, ideally with the FROG Water Care App, test the water in the pool and follow steps a through d in that order until the Water Balance Guidelines are met. **IMPORTANT:** Always follow instructions on the balancing chemical packages and add them in small increments one at a time with the pool circulation running. Wait 8-12 hours before testing and adding any additional balancing chemicals.
 - a. Adjust the Total Alkalinity first {using {Brand Name}} to bring within 80 – 120 ppm prior to making any adjustments to pH even if it throws pH off further.
 - b. After Total Alkalinity is in range, adjust pH to between 7.2 and 7.8 using {Brand Name} {a pH adjuster}.
 - c. Check Total Hardness again. If you used a soft water source to fill the pool, you may need to add Hardness Increaser to maintain 200 – 400 ppm.
 - d. Add Cyanuric Acid if the level is below 20 ppm. This will prevent chlorine burn off in the pool.

Water Balance Guidelines

pH:	7.2-7.8
Total Alkalinity:	80-120 ppm
Total Hardness:	200-400 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	20-80 ppm
Free Chlorine:	0.5-1.0 ppm

If balancing takes longer than 2 days, shock the water {with 53735-13 Brand Name} {an EPA registered chlorine shock} and maintain a chlorine level while continuing balancing. Follow manufacturer's directions carefully.

5. Once the water is balanced, ensure the chlorine level is 0.5 – 1.0 ppm. If below 0.5 ppm, add {53735-13 Brand Name} {an EPA registered chlorine shock} to rid the water of all contaminants. **NOTE: THIS STEP IS VERY IMPORTANT TO START-UP. USE CHLORINE SHOCK ONLY.**

Step 2: Put the System to Work

1. {Set reminder dial on the Frog Minerals to 6 months from date of installation.} {Rotate IN window to month of installation. See OUT window for replacement month.}
2. Turn off pump and remove pump lid {or skimmer cover}
3. {Insert} {Place} Frog Minerals into the pump {or skimmer} basket.

- a. If using Frog Minerals in a skimmer basket that has a suction side automatic cleaner installed, it will be necessary to use a vac plate that may come with the skimmer or automatic cleaner.
4. Once installed, maintain recommended chlorine levels of 0.5 to 1.0 ppm in the pool by using an EPA registered source of chlorine approved specifically for swimming pools or a chlorine delivery device.

Step 3: Routine Pool Care

1. Run pump and filter at least 8 hours per day.
2. Regularly test water for pH, Total Alkalinity and chlorine levels.
3. Maintain at least 0.5 ppm chlorine level at all times. {A chlorinator or floater is recommended.} {Set the dial on the {Brand System} with the {53735-2 Brand Name} inside and adjust as needed to maintain that chlorine level.}
4. Shock pool every two weeks or as needed {with Brand Name} to maintain water quality. Follow label directions on the shock treatment used.
5. Check the filter gauge regularly and clean or back-wash when needed per the manufacturer's directions.
6. Periodically clean skimmer and pump basket of excess debris as normal.
7. Remember to replace Frog Minerals every 6 months or after one pool season whichever is shorter.

Troubleshooting

Cloudy Water

- Check water balance. Ensure pH, Total Alkalinity, Total Hardness and Cyanuric Acid levels are correct.
- Make sure your chlorine level is 0.5 to 1.0 ppm.
- Make sure your Frog Minerals is not older than 6 months as it will be ineffective, and more chlorine will be required to maintain the pool until you replace the Frog Minerals.
- Consider increasing the circulation pump run time per day.
- Use {Brand Clarifier} following the instructions on the product or shock the pool to regain clarity.

Algae

- Use {53735-17 or 53735-9 Brand Name} {an algaecide} following manufacturer's directions carefully. This may involve more than one dose.
- Run circulation 24 hours a day and brush the sides of the pool often.
- When clarity starts to return shock the pool.
- To prevent algae for 6 months, try {53735-17 or 53735-9 Brand Name} and learn about its 90 day No Algae Guarantee. {Using {Brand Phosphate Remover} will also aid in preventing algae.}

Learn more at frogproducts.com or call 800-222-0169

Ver la versión en español de este manual en frogproducts.com [English translation: For a Spanish version of this manual, see frogproducts.com]

Register your Frog Minerals at frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Operational Instructions for Product Description 2b for Pool Pump Basket or Skimmer Application used with {53735-17 Brand Name for Algae Control} and any EPA registered source of chlorine]
[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

{Brand System} Operating Manual

FROG Minerals sanitize water with a low level of chlorine
{53735-17 Brand Name} prevents algae {guaranteed for 90 days}

Step One: Preparing the Pool

1. At start-up circulate the water for at least 24 hours before balancing. Then, typically, 8 to 12 hours per day for the season.
2. Clean or backwash the filter per the manufacturer's directions before using this product.
3. Take a sample of your fill water to a pool professional to check Total Hardness and iron or metal content before adding any water to the pool. If higher than 400 ppm hardness, it may be helpful to find a soft water source to fill or top off your pool in the spring. You may also require a metal control product before balancing.
4. Using FROG Test Strips, ideally with the FROG Water Care App, test the water in the pool and follow steps a through d in that order until the Water Balance Guidelines are met. **IMPORTANT:** Always follow instructions on the balancing chemical packages and add them in small increments one at a time with the pool circulation running. Wait 8-12 hours before testing and adding any additional balancing chemicals.
 - a. Adjust the Total Alkalinity first {using {Brand Name}} to bring within 80 – 120 ppm prior to making any adjustments to pH even if it throws pH off further.
 - b. After Total Alkalinity is in range, adjust pH to between 7.2 and 7.8 using {Brand Name} {a pH adjuster}.
 - c. Check Total Hardness again. If you used a soft water source to fill the pool, you may need to add Hardness Increaser to maintain 200 – 400 ppm.
 - d. Add Cyanuric Acid if the level is below 20 ppm. This will prevent chlorine burn off in the pool.

Water Balance Guidelines

pH:	7.2-7.8
Total Alkalinity:	80-120 ppm
Total Hardness:	200-400 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	20-80 ppm
Free Chlorine:	0.5-1.0 ppm

If balancing takes longer than 2 days, shock the water {with 53735-13 Brand Name} {an EPA registered chlorine shock} and maintain a chlorine level while continuing balancing. Follow manufacturer's directions carefully.

5. Once the water is balanced, ensure the chlorine level is 0.5 – 1.0 ppm. If below 0.5 ppm, add {53735-13 Brand Name} {an EPA registered chlorine shock} to rid the water of all contaminants. **NOTE: THIS STEP IS VERY IMPORTANT TO START-UP. USE CHLORINE SHOCK ONLY.**

Step 2: Put the System to Work

1. {Set reminder dial on the Frog Minerals to 6 months from date of installation.} {Rotate IN window to month of installation. See OUT window for replacement month.}

2. {Remove pump lid and skimmer cover.}
3. {Insert} {Place} FROG Minerals in the {pump {or skimmer} basket} {installed {Brand System}}.
4. Remove outer packaging of {53735-17 Brand Name} {by carefully cutting open the bag without cutting the product inside} and insert the number of {containers} {sachets} {cartridges} {pouches} {pods} {orbs} {globes} {spheres} {dots} {bags} in the skimmer basket per the pool sizing chart.

{Above} {or} {In} {Ground} Pool Sizing Chart for {53735-17 Brand Name}			
{Type}	{Dimensions}	{Gallons}	{# of} {53735-17 Brand Name}{pods}
{Above Ground} {Above or In Ground}	{15' to 21' {Round} {Dia.} {12' x 24'}}	{5,000-10,000}	{x}
{Above Ground} {Above or In Ground} {In Ground} {Above Ground}	{24' to 30' {Round} {Dia.} {15' x 30' {16' x 32' {18' x 33' or 36'}}	{10,000-20,000} {10,000-25,000}	{x}
{Above Ground} {In Ground} {In Ground} {Above Ground}	{33' {Round} {Dia.} {18' x 36' {20' x 40' {21' x 42'}}	{20,000-30,000}	{x}

5. Run circulation for 24 hours and then dispose of empty {53735-17 Brand Name} in trash {or offer for recycling if available}.
6. Do not add any other chemicals to the pool through the skimmer or pump basket for 24 hours and do not clean or backwash the filter for at least 2 weeks after {53735-17 Brand Name} was dispensed.
7. If algae is present, brush the sides of the pool often until clarity returns.
8. {{Once installed,} maintain recommended chlorine levels of 0.5 to 1.0 ppm in the pool by using an EPA registered source of chlorine approved specifically for swimming pools or a chlorine delivery device.}

Step 3: Routine Pool Care

1. Run pump and filter at least 8 hours per day. If cleaning up algae, run the pump and filter 24 hours a day until clarity returns.
2. Regularly test water for pH, Total Alkalinity and chlorine levels.
3. Maintain at least 0.5 ppm chlorine level at all times. {A chlorinator or floater is recommended.} {Set the dial on the {Brand System} with the {53735-2 Brand Name} inside and adjust as needed to maintain that chlorine level.}
4. Shock pool every two weeks or as needed {with Brand Name} to maintain water quality. Follow label directions on the shock treatment used.
5. Check the filter gauge regularly and clean or back-wash when needed per the manufacturer's directions.
6. Periodically clean skimmer and pump basket of excess debris as normal.
7. Remember to {reapply} {use a new} {53735-17 Brand Name} every {x days} {x weeks} {x months} **[time based on volume of product]** and replace Frog Minerals every 6 months or after one pool season whichever is shorter.

Troubleshooting

Cloudy Water

- Check water balance. Ensure pH, Total Alkalinity, Total Hardness and Cyanuric Acid levels are correct.
- Make sure your chlorine level is 0.5 to 1.0 ppm.
- Make sure your Frog Minerals is not older than 6 months as it will be ineffective, and more chlorine will be required to maintain the pool until you replace the Frog Minerals.
- Consider increasing the circulation pump run time per day.
- {Use {Brand Clarifier} following the instructions on the product or} shock the pool to regain clarity.

Algae

- {53735-17 Brand Name} should keep algae away guaranteed for up to {x-days}. If you should get algae within {x-days} of first use, contact Customer Service for support or visit frogproducts.com/reg.
- {To further prevent algae, use {Brand Phosphate Remover} following the instructions on the product.}

Learn more at frogproducts.com or call 800-222-0169

Ver la versión en español de este manual en frogproducts.com [English translation: For a Spanish version of this manual, see frogproducts.com]

Register your Frog Minerals and {53735-17 Brand Name} at frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Product Description 3 and Directions for Use for Floating Pool Cartridge with 53735-2 Brand Name]

Product Description {For FROG Minerals {Cartridge}}: FROG Minerals is a disinfectant that is part of a complete pool care system that utilizes a patented mineral formula+ with low levels of chlorine to destroy bacteria, help maintain pH and restore water clarity. Use with the {53735-2 Brand Name} and simply {connect, set the dial} {twist to set the dial} and toss into the pool. Everything is prefilled and contained for no mess, no guess and no stress pool care. Plus, minerals reduce chlorine use up to 50% which helps prevent faded swimsuits, premature damage to pool equipment or surfaces and smelly odors.

Directions For Use:

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

For use in {above ground pools up to 18' in diameter or approximately 5000 gallons} {above ground or in-ground pools between 5000 and 10,000 gallons}. Not recommended for pools under {2000} {5000} gallons. Ensure all pool equipment is working properly with adequate circulation per the pool manufacturer. Balance the water's {Total Alkalinity to 80-120 ppm and} pH to 7.2-7.8. Shock pool to remove contaminants (follow manufacturer's directions). {More than 1 system may be used for larger pool sizes (For instance 2 FROG Minerals for up to {10,000} {20,000} gallons).}

For complete instructions read the entire manual

[The following copy is engraved on the Floating Pool Cartridge plastic container]

Not A Toy

No es un juguete

Keep Out of Reach of Children

CAUTION

EPA Reg. No.: 53735-RI-xxxxx}

{kingtechnology.com} [OR] {heycoolpool.com}

Patents: {kingtechnology.com/IP} [OR] {heycoolpool.com/IP}

[Operational Instructions for Product Description 3 Floating Pool Cartridge used with 53735-2 Brand Name]

[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

{Brand} Mineral System Operation Manual

This is not a toy. For sanitizing pools only! Tether to pool with enclosed cord.

FROG Minerals sanitizing mineral pool care will help destroy bacteria to keep your pool clean with less work and up to 50% less chlorine*. It is super easy to use and will keep you enjoying a clean, clear swimming pool for weeks at a time.

For complete instructions read the entire manual.

Step One: Preparing the Pool

1. Make sure the pool has adequate circulation. The total volume of pool water must completely circulate through the pump and filter at least 1 to 2 times per day. This usually requires 8 to 12 hours of circulation. Check with your dealer for the proper circulation time for your pool.
2. Check the pool's filter gauge often and periodically clean the filter per the manufacturer's directions. A dirty filter will slow the flow of water which could hamper proper circulation.
3. Check the {Water} {Total} Hardness of your fill water before adding to the pool. If calcium content is higher than 400 ppm find a soft water source to fill your pool instead; otherwise, water balance will be very difficult.
4. {At spring start-up always circulate the water for at least 24 hours before testing it.} For best results in achieving water balance, follow steps a through e in order. **IMPORTANT:** Always follow printed instructions on the balancing chemical packages. Add balancing chemicals in small increments one at a time with circulation running. Wait 8-12 hours before testing again and adding any additional balancing chemicals.
 - a. Take a water sample from the pool and dip a {Brand} Test Strip into it.
 - b. Look at the Total Alkalinity reading first. {Use {Brand Name}} {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. After Total Alkalinity is in range, test for pH. It should be between 7.2 and 7.8. If higher or lower, add {Brand Name} {a pH adjuster}.
 - d. Then test for {Calcium} {Total} Hardness again. It should be between 200 and 400 ppm. {If higher, partially drain the pool and refill with water low in calcium.} If lower than 200 ppm, add {Brand Name} {Calcium Hardness Increaser}. {Always maintain 200-400 ppm}
 - e. Lastly test for {stabilizer or conditioner} {cyanuric acid} levels. Add {Brand Name} {conditioner} {cyanuric acid} if the level is below 20 ppm. This will prevent chlorine burn off. If {cyanuric acid} {stabilizer} is above 80 ppm, partially drain water and refill.

If balancing takes longer than 2 days, shock the water {with 53735-13 Brand Name} and maintain a chlorine level while continuing balancing.

5. {If you haven't already added a shock during balancing,} {Initially} shock the pool with {53735-13 Brand Name} {a chlorine shock} {only} to {remove} {rid the water of} contaminants and establish a chlorine residual. Always follow manufacturer's directions carefully. {See the box below for important guidance on shocking.}

NOTE: THIS STEP IS VERY IMPORTANT TO START-UP. USE CHLORINE SHOCK ONLY.

Water Balance Guidelines

pH:	7.2-7.8
Total Alkalinity:	80-120 ppm
{Calcium} {Total} Hardness:	200-400 ppm
Total Dissolved Solids:	<1500
{Stabilizer}	
{Cyanuric Acid:}	20-80 ppm
Free Chlorine:	0.5-1.0 ppm

IMPORTANT: Never add any types of chlorine, pH adjusters, shock treatments or algaecides through the skimmer or within 3 feet of the {Brand System}. Damage to the pool or equipment, fire or explosion could result.

Step Two: Putting the System to Work

1. Remove {outer packaging} {cap} from {both} the {mineral and} chlorine cartridge{s} of the {Brand System} by squeezing the bottom and turning. {NOTE: Small mineral particles may have dislodged from the cartridge in shipping. Simply discard particles in trash.}

2. [OPTION 1] Line up arrow on the chlorine cartridge with the unlock symbol on the FROG Minerals. Push together and twist to lock.

[OPTION 2] Align the chlorine cartridge with tab guides on the FROG Minerals. Push together until you hear the cartridge click into place.

[OPTION 3] Insert FROG Minerals into the section of the reusable floating holder that fits that shape. Make sure it snaps in securely and stays in place. Insert the {53735-2 Brand Name} into the other section in the same way.

3. Tether it to the pool side with the cord provided, away from the skimmer or a return jet.

{More than 1 system may be used for larger pool sizes (For instance 2 FROG Minerals for up to {10,000} {20,000} gallons).}

NOTE: This product may be removed from the pool when in use. Lift out of the water and let drain into the pool. Then hang over the outside of the pool or place on the ground or a surface that is not susceptible to bleaching from the chlorine. Remember to replace the product once exiting the pool.

[Graphic callouts:] Tabs, tab guides

Step Three: Setting the Dial

[OPTION 1] Twist the mineral cartridge opposite of the chlorine cartridge until the setting number for your pool size (see setting chart) is lined up with the arrow {on the chlorine cartridge}.

[OPTION 2] Twist the dial on the chlorine cartridge to the setting number for your pool size (see setting chart).

If you find less chlorine is needed turn the dial to a lower setting – if more is needed turn it to a higher

setting. Even at the lowest setting {of 0} there will be some chlorine released into the pool.

[graphic callouts:] Setting {#} on FROG Minerals, Twist {mineral opposite of chlorine} {dial on bottom of chlorine cartridge}

Initial Setting Chart					
{Diameter}	{Gallons}	{Setting #}	{Diameter}	{Gallons}	{Setting #}
8-10'	{1000}	#	{18'}	{5000}	#
10'	{1500}	#	{18'}	{5500}	#
12'	{2000}	#	{18'}	{6000}	#
12'	{2500}	#	{18'}	{6500}	#
15'	{3000}	#	{20'}	{7000}	#
15'	{3500}	#	{20'}	{8000}	#
15'-16'	{4000}	#	{21'}	{9000}	#
15'-16'	{4500}	#	{21'}	{10,000}	#

 {Most common pool size} {For example, pools 15' in diameter or 4000 gallons would use setting x}

NOTE: Calculate pool gallons for round pools by multiplying diameter x diameter x water height (feet) x 5.9. For rectangle pools multiply length x width x average depth (feet) x 7 or visit our pool volume calculator at kingtechnology.com {frogproducts.com}.

Replacing the {53735-2 Brand Name} Cartridges

1. When the product is almost empty it will slowly flip over giving you notice that it's about time to replace. Do not remove the chlorine cartridge until the system has completely flipped. {If it stays on its side longer than a day or two, pull unit out of the water and let it drain. Reset it in the water to see if it flips completely.}
2. When it completely flips over, {replace by rotating the two cartridges until the arrows align along the edge of both cartridges and pull apart} {release the chlorine cartridge by squeezing the tabs and pull the empty cartridge out}.
3. If the chlorine cartridge contains a small amount of chlorine after the system has flipped over, {place in pool to float by itself} {hang on the tether via the hook on the side of the cartridge} until completely empty. Do not allow chlorine cartridge to sink to the bottom or pool bleaching may occur.
4. When completely empty, discard in trash or offer for recycling if available.

Step Four: Routine Pool Care

1. Run pump and filter at least 8 hours per day but ideally 24 hours per day. Clean or replace your filter cartridge weekly. Lack of circulation may cause bleaching of pool surface and improper sanitization levels.
2. Skim the surface of any debris and remove anything collected on the return fitting to your pump.
3. Regularly test water for pH, Total Alkalinity and chlorine levels. Adjust your pH when it rains or when adding fresh water to the pool. Maintain a 0.5 to 1.0 ppm chlorine level at all times.
4. Replace the chlorine cartridge when {Brand System} completely flips over.
5. Shock the pool {with Brand Name} {at least} {weekly in the heat of the season {or} {and}} {at least weekly when the pool is being used often and every few days when the water temperature is 90 degrees or more} {as needed} to maintain water clarity. We recommend a non-chlorine shock as reducing chlorine use is the goal of {Brand} products. {However, using a chlorine shock is ok too.} Follow label directions on the shock treatment used. See {IMPORTANT} box under {Step 1:} Preparing the Pool.
6. Replace the complete {Brand System} every 6 months or after one pool season whichever is shorter. If the pool is drained and refilled prior to six months, FROG Minerals must be replaced at that time.

Troubleshooting

Cloudy Water or Low Chlorine Levels

- Check water balance. Ensure pH, Total Alkalinity, Total Hardness and {Stabilizer} {Cyanuric Acid} levels are correct.
- Check chlorine cartridge and replace if empty – see instructions under “Replacing Cartridges”.
- Make sure your FROG Minerals is not older than 6 months as it will be ineffective, and more chlorine will be required to maintain the pool until you replace the FROG Minerals.
- Shock the pool {with a chlorine or non-chlorine shock} to regain clarity. See {IMPORTANT box under} {Step 1:} Preparing the Pool.

High Chlorine Levels

- Remove the {Brand System} from the pool until the chlorine level is down to 1.0 ppm.
- Lower the dial setting on the {Brand System} by 1 number and replace in the pool.
- Test in 24 hours. Repeat process until chlorine level stays within 0.5 to 1.0 ppm.

Algae

- Use {Brand Name} {an algaecide} following manufacturer’s directions carefully. This may involve more than one dose.
- Run circulation 24 hours a day and brush the sides of the pool often
- When clarity starts to return shock the pool. See {IMPORTANT box under} Preparing the Pool.

Learn more at {kingtechnology.com} {frogproducts.com} or call 800-222-0169

Register your FROG Minerals at {kingtechnology.com} {frogproducts.com}

Ver la versión en español de este manual en frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Product Description 4 and Directions for Use for Pool Cartridge for Bulk Chlorinator with 53735-2 Brand Name]

Product Description: FROG Minerals is a disinfectant that is part of a complete pool care system that works inside a {Brand} chlorinator utilizing a {patented} mineral formula with low levels of chlorine to destroy bacteria, help maintain pH and restore water clarity. The {Brand} Mineral {System} {Technology} {Formula}+ reduces chlorine use up to 50%*. Simply use with the {53735-2 Brand Name} by {attaching} {connecting} {latching} the two pacs together and inserting in the center of a {Brand} {or equivalent} chlorinator. Using the Pool Frog Mineral {System} {Technology} {Formula}+ improves {swimming pool pleasure} {your swimming experience} by reducing the problems associated with chlorine including faded bathing suits, premature damage to pool equipment or surfaces and smelly odors.

Replace the FROG Minerals after 6 months.

Directions for Use:

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

For use inside {{Brand} chlorinator models XXX and XXX} {{Brand} chlorinator models 300 and 320} {or equivalent chlorinators} for pools up to {10,000} {15,000} {20,000} {25,000} {30,000} {35,000} {40,000} gallons. FROG Minerals must be used with the {53735-2 Brand Name}. Before using, balance the pH to between 7.2 and 7.8 and Total Alkalinity between 80-120 ppm and shock the pool with a {chlorine shock per the manufacturer's directions.} {shock pac per its label directions.} Make sure the chlorinator is completely empty of chemical. Never mix chemicals. If used previously with a chemical other than Trichlor, clean inside of chlorinator thoroughly. Then follow the directions below:

1. {Remove {tape} {foil} covering the water holes on the bottom and {side of}} {Remove plug from side of} the {53735-2 Brand Name}.
2. Connect the FROG Minerals to the {53735-2 Brand Name} by bringing the two pieces together, lining up the arrows and turning the {53735-2 Brand Name} clockwise until locked in place.
3. Turn circulation pump off, turn the {Brand} chlorinator dial to off and remove its cap.
4. {Lift} {Use} handle {and} {to} insert the complete system into the {Brand} chlorinator by lining up the short square channel on the FROG Minerals with the dial side of the chlorinator. Lower until seated. The cap will not close properly if the product is not seated correctly. Lift up and reinsert until seated properly.
5. Replace the cap on the {Brand} chlorinator and turn pump back on. Set the control dial according to the chart in the manual. When using the FROG Minerals maintain a free available chlorine (FAC) level of 0.5 ppm to 1.0 ppm. Adjust the chlorinator dial to increase or decrease chlorine output.
6. {If using Algaecide Pac. Before attaching the {53735-2 Brand Name} (step 2) {push} {screw} {affix} {insert} algaecide {pac} {container} {bottle} {on} {in} to the {chlorinator} {adapter that attaches to the} {FROG Minerals} {while inside the chlorinator} {then insert into chlorinator}. Replace cap, turn dial full open and run for 90 minutes. Remove algaecide bottle and discard or recycle.}

[Operational Instructions for Product Description 4 Pool Cartridge for Bulk Chlorinator used with 53735-2 Brand Name]

[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

{Brand} Mineral System Operation Manual

Welcome to pool care courtesy of {Brand}. The {Brand} Mineral System+ will destroy bacteria to keep your pool clean with less work and up to 50% less chlorine*. It is super easy to use because it fits inside your current {Brand} {or equivalent} chlorinator. You simply enjoy a clean, clear swimming pool without touching or counting chlorine {tablets} {pucks} again. Here's all you do:

Swimming Pool Tips

1. Make sure the pool has adequate circulation. The pool water must completely circulate through the pump and filter at least 1 to 2 times per day. This usually requires 8 to 12 hours. Check with your dealer for the proper circulation time for your pool.
2. Before beginning with any pool care program, you must first balance your pool water. {At spring start-up always circulate your water for at least 24 hours before testing it.} Take a water sample to your local pool professional {or use a complete test kit} that will test for the following important elements.
3. If your fill water is high in metals, use a sequestering agent or metal out product at start up only before using the mineral reservoir. See your local dealer for details on using these products and always follow manufacturer's directions carefully.
4. After your pool is up and running smoothly, continue to test your water for pH, Total Alkalinity and chlorine {with {Brand} Test Strips} and maintain its balance by adding any necessary adjustment products (see your dealer for details).
5. Check the pool's filter gauge often and periodically clean filter per the manufacturer's directions. A dirty filter will slow the flow of water which could hamper proper circulation.

{How to replace the {Brand System} components}

{Replacing} {Using} a FROG Minerals and {53735-2 Brand Name}

1. Check the {top} {front} of the box {and {back} label of product} to make sure you have the correct FROG Minerals to fit your {Brand} chlorinator.

THE FROG MINERALS MUST BE REPLACED EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER.

2. Remove the material covering the holes on the bottom {and side} of {remove the plug from the side of} the {53735-2 Brand Name}.
3. {If using {53735-9 Brand Name}. {push} {screw} {affix} {insert} algaecide {pac} {container} {bottle} {on} {in} to the {chlorinator} {adapter that attaches to the} {FROG Minerals} {while inside the chlorinator} {then insert into chlorinator}. Replace cap, turn dial full open and run for 90 minutes. Remove algaecide {pac} {container} {bottle} and discard or recycle.}
4. Connect the FROG Minerals to the {53735-2 Brand Name} by bringing the two together, lining up the arrows and turning the {53735-2 Brand Name} clockwise to lock.

5. Turn off pump, turn chlorinator dial closed or off and open the cap.
6. {Lift up} {Use} the handle {and} {to} lower the complete system into the {Brand} chlorinator by lining up the square channel on the side of the FROG Minerals and {53735-2 Brand Name} with the dial side of the {Brand} chlorinator.
7. Replace the chlorinator cap. If the system is not seated properly the cap will not close. Pull up, check alignment and re-lower into chlorinator.

Channel in FROG Minerals
Dial side of {Brand} chlorinator

Replacing the {53735-2 Brand Name}

{53735-2 Brand Name} will help ensure a reduction of up to 50%* in chlorine use. *Pacs sold separately.* (EPA Reg. No. 53735-2)

Avoid sparks, open flame or smoking when handling the pac.

1. When the {53735-2 Brand Name} is empty remove the entire {system} {product} from the chlorinator. Turn the {53735-2 Brand Name} counterclockwise to unlock it from the FROG Minerals. Simply connect a new {53735-2 Brand Name} by lining up the arrows and turning the {53735-2 Brand Name} clockwise until it locks.
Alignment arrows
Turn clockwise
2. {Lift up} {Use} the handle {and} {or} lower the complete system into the {Brand} chlorinator by lining up the square channel on the side of the FROG Minerals and {53735-2 Brand Name} with the dial side of the {Brand} chlorinator.

The pacs are made of HDPE plastic. Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Rinse thoroughly before recycling or discarding in trash.

Mark your calendar for the six-month replacement of the FROG Minerals and approximate replacement times for the {53735-2 Brand Name}. Once wetted, the time-released mineral coating of this product is effective up to 6 consecutive months or one pool season whichever is shorter. After that time, even if you hear the spent media inside, it is no longer effective and must be replaced.

Start-up and Operation

1. Add a stabilizer or conditioner to the pool at the beginning of the season if the stabilizer level is below 20 ppm. This will prevent chlorine burn off. Follow manufacturer's directions carefully.
2. {Shock the pool with {an EPA registered chlorine shock} {53735-13 Brand Name} to rid the water of all contaminants before beginning. Follow manufacturer's directions carefully.}

Do not add shock in or near the skimmer or into the chlorinator as it could damage equipment, risk potential explosion or discolor your pool surface.

THIS STEP IS VERY IMPORTANT TO START-UP. USE CHLORINE SHOCK ONLY.

3. {If using the {53735-9 Brand Name} {pac} {container} {bottle}, follow the directions for use on that product now.}
4. Install FROG Minerals and {53735-2 Brand Name} into the {Brand} chlorinator. See page 1 for directions.

REPLACE THE FROG MINERALS EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER.

5. **SETTING CONTROL DIAL** Set control dial by matching up the parameters of your pool on the charts below. THIS IS A STARTING POINT ONLY and may need to be adjusted to fit your individual pool needs. See # {x} for directions.

Initial Setting Chart	
Pool Gallon Size	Setting #
10,000	#
15,000	#
20,000	#
25,000	#
30,000	#
35,000	#
40,000	#

6. For the first week test the pool water daily for free chlorine {with {Brand} Test Strips} to ensure correct dial setting. Continue to test weekly throughout the season. After testing, adjust the dial up by ½ increment if the free chlorine reading has dropped below 0.5 ppm or down by ½ increment if the reading has risen above 1.0 ppm. Continue this process each day until the {reading stabilizes to at least 0.5 ppm.} {color on the test strip matches the ideal {Brand} range of 0.5 ppm to 1.0 ppm free available chlorine (FAC).} Remember to adjust dial by ½ increments only, in order to prevent over chlorination which may bleach pool surfaces.
7. Shock pool every two weeks or as needed to maintain water quality. Follow label directions on the chlorine shock treatment used.

Hayward® is a registered trademark of Hayward Industries Inc.
Rainbow® is a registered trademark of Pentair Inc.

Learn more at frogproducts.com or call 800-222-0169
Register your FROG Minerals at {kingtechnology.com} {frogproducts.com}

Ver la versión en español de este manual en frogproducts.com
{Made} {Manufactured} {Assembled} in {the} USA
Patents: kingtechnology.com/IP

[Optional Language for Product Descriptions 1-4 used with Chlorine or 53735-2 Brand Name]

[All text is optional]

{Minerals and Chlorine} Pool Sanitizer {Replacement}
{The Brand System -} {An} Easy way to cleaner, clearer water
{Water care that's} Easy as 1-2-3-Ahh{...}{!}

The all-in-one pool sanitizing system
Precision performance – just set it and forget it [ICON: Gauge]
With less chlorine it's easier on skin, hair and {swim}suits – and no smelly odors [ICON: Water drop on lines representing water in circle]

25% more water polishers for sparkling water [ICON: 2 diamond shapes in circle]
{Your} 90-day {algae protection} guarantee{d} {against algae} {with {53735-9 Brand Name}} [ICON: 90 DAYS in circle]
{Lifetime} {10 year} warranty on {Brand} [ICON: Shield image in circle]

The quick and easy way to sanitize!
Don't forget our special test strips for your {Brand} Pool System

Step 1: [ICON: step 1 in colored circle] {Minerals} FROG Minerals (included in this box). {Lasts}
{Replace every} 6 months or 1 pool season (whichever is shorter)
Step 2: [ICON: step 2 in colored circle] {53735-9 Brand Name} ({kit} sold separately) {Algae Protection} {Algaecide}
{Use once in the spring and again in the fall for optimal performance plus a{n} {90-day} algae protection guarantee!} {Dispenses in 90 minutes. Prevents algae for 90 days – guaranteed}
Step 3: [ICON: step 3 in colored circle] {Additional} {Chlorine} {53735-2 Brand Name} (sold separately). Replace every {x-x weeks throughout} {{your swim} season} {{the} summer}. {{Brand} Test Strips. Specially designed for {Brand users}.}

{For pools} Up to {25K} {40K} gallons
Fits the following systems {list of brands}
Say hello to simple.

Fun Simplified. Ask about {Brand} Water Care Systems
Innovation meets simplicity

Open your eyes to a fresher clean
A confident clean with less chlorine – minerals make the difference
Remember to replace your {minerals} {Brand} every 6 months

Easy to Use - Lasts 6 months [ICON: 6mos inside a calendar image]
Toss it in for weeks of worry-free water!
Lower your chlorine use up to 50% with minerals* [ICON: 50% in circle]

Set it and forget it convenient reminder dial for 6 months [ICON: Dial arrow image in circle]
Easy installation into most skimmer baskets – no assembly [ICON: Arrow pointing down into basket]
{Compatible} {Compatibility} with {chlorine} Salt, Ozone or UV

With {up to 50%} less chlorine* {it's} {Brand Name is} easier on skin and helps protect pool surfaces
[ICON: Water drop on lines representing water in circle]
Water so clear and clean the neighbors will be {jealous} {envious}

[All text is optional]

{Plus} Free {#} {Brand} Test Strips Inside

Complete pool care system

No more daily maintenance

Makes {cleaning} {sanitizing} your pool as easy as 1, 2, 3

1. FROG Minerals

- Fits inside the {Brand System}
- Contains minerals that help to {control} {destroy} bacteria
- Replace mineral reservoir every season – do not use more than 6 consecutive months.

2. {53735-2 Brand Name}

- Sits inside the FROG Minerals Set the {Brand System} dial for achieving at least 0.5 ppm chlorine level (see instruction manual)
- Replace {53735-2 Brand Name} when empty
- {53735-2 Brand Name} sold separately

Experience the mineral water difference

Fits the following Cyclers: Pool Frog Series 4500, 5100, 5200, 6100, 6500 or xxxx

Prevail Series 5770 or 5771 In-Ground Series 5400 or xxxx (xx-xx-xxxx) for use in Model

Fits the following Cyclers: Pool Frog Series 5400, 5600, or xxxx and Prevail Series 5790 01-12-5472

Cleaner: Minerals and low levels of Chlorine for a{n} {ultra} clean{er} {pool}

Clearer: Enjoy clearer pool water with less work

The {Automatic} All-in-One {Small} Pool {Sanitizer} {Water Care} {-XL}

{insert color} Mineral{s} {cartridge} last{s} all {summer} {season} {6 months}

{The {prefilled} {insert color} {53735-2 Brand Name}} Lasts {2}{3}-4 weeks

Helps maintain pH {and} restores water clarity.

Flips over when {53735-2 Brand Name} {is empty and} needs {to be replaced} {replacing}. [ICON:

Arrow going in circle]

{With} Adjustable dial settings

Helpful Start-up Tips

Starting up your pool with {Brand}

1. Test your water with {Brand} Test Strips and balance the Total Alkalinity to 80-120, the pH to 7.2-7.8 and the {calcium} {total} Hardness to 200-400.
2. Replace your minerals every spring. Even if you hear the minerals left inside - they are no longer effective to kill bacteria after 6 months.
3. Start-up the pool with {Brand} algaecide that protects your pool against algae for 90 days – guaranteed!
4. Insert a chlorine pac and set the dial to maintain the low 0.5 to 1.0 ppm level. Use {Brand} Test Strips to dial in the ideal range.
5. Have a fun summer!

Still need help? Download the free {Brand} Water Care App, visit your local {Brand} Dealer, {call} {contact} Customer Service at xxx-xxx-xxxx

Don't forget {53735-13 Brand Name} for spring openings and {53735-13 Brand Name} for fall closings!

Use {53735-13 Brand Name} for optimal performance of your {Brand} Mineral System

Use {53735-13 Brand Name} {for a 1-2 Winterizing Punch} {to prepare for a smoother spring start-up}

[All text is optional]

{Brand} Test Strips {– The only way to ensure Fresh Mineral Water[∞] with} {lower} {the proper} chlorine {for {Brand} mineral water products.} {up to 50% less chlorine*!}} {with the ease of Dip and Read!} Tests for pH and Total Alkalinity too!

{Brand} Test Strips

To accurately measure the reduced chlorine level of 0.5 to 1.0 ppm, use {Brand} Test Strips and adjust your dial setting to maintain the ideal {Brand} chlorine range and get a longer life to the {53735-2 Brand Name}.

Today's forecast: sunny with clear water and loads of epic fun!

Lower{s} {your} chlorine {usage} {use} {up to 50% with {Brand} minerals*}

Secure, prefilled cartridges – never touch chemicals again

Tether included – secures to side of pool or ladder [ICON: Product on colored lines with tether in circle]

Crystal clear water made easy

Pool Rules: Laugh, Smile, Splash, Enjoy

The difference between green and clean

Using FROG Minerals, you can expect...

Consistent Sanitizing

Minerals are EPA registered as disinfectants, so they are killing bacteria consistently for 6 months.

Up to 50% Less Chlorine Use

Because minerals are doing part of the sanitizing work, you can lower the chlorine level in the pool to 0.5 ppm. The combination of {Brand} minerals and 0.5 ppm chlorine is as effective as 1.0 ppm of chlorine alone.

Easier Weekly Visits and No Call Backs

No need to check FROG Minerals or add a booster. It continues to work as long as it's in the water. FROG Minerals keeps water crystal clear as it acts as an insurance policy against green or cloudy pools.

pH in the Proper Range

{Brand} minerals also absorb acids to guard against high pH which means less time testing and balancing the water. Another time saver!

50% Slower Build-up of CYA

With minerals reducing chlorine levels up to 50%, there is less cyanuric acid entering the pool in a season, therefore less build-up that can lead to chlorine inefficiency.

Reduction in Energy Use

FROG Minerals can even help cut down on energy bills by running the circulation system fewer hours per day. Between the minerals and low chlorine level, there is enough sanitizing potential that a 24-hour pump time is not needed. Add a timer to run during the day for enough hours to turn the water over 1.5 times per day. Your customers will thank you!

Improved Water Quality

With the conditioning properties of minerals and less chlorine in the pool, the feel of the water is much softer. There is also far less odors and no bleaching of swimsuits. Because minerals reduce chlorine use, they actually protect the pool equipment and surfaces, so the pool stays new looking longer.

[All text is optional]

FROG Minerals can work with any of these pools by providing an extra layer of protection against bacteria. Salt system users can turn their dial down and generate a lower chlorine level which helps prolong the life of their salt cell. Ozone and UV do not leave a residual in the pool, so FROG Minerals provides a steady bacteria-fighting presence.

Lower TDS levels

Minerals and 0.5 ppm of free chlorine make up a complete sanitizing system. The only other thing you need is a regular pool shock and some balancing chemicals. By not requiring borates, enzymes, clarifiers and other chemicals, you can greatly reduce TDS build up in the water.

6 Months of Protection

FROG Minerals mineral formula keeps working up to 6 months or one pool season whichever is shorter. During that time, no additional mineral doses are required which saves you money. Simply discard in the trash and replace with a new one.

Flippin' amazing {pool care}
Drop n' Go Floater
It's Flippin' Foolproof

Relax, Laugh, Have Fun!
{Clean} {Clear} water the easy way! Easy way to cleaner, clearer water
{Destroys} {Kills} {Eliminates} {harmful} bacteria with up to {1/2} {half} {50%} the chlorine*

For {pop-up} {inflatable or frame} {easy set} {do it yourself} {above ground} {pools} {12 to 18} {18 to 21} {feet} {foot} {in} {diameter;} {2000 to 5000 gallons} {up to 5000 gallons} {or in-ground pools} {5000 to 10,000 gallons} {up to 10,000 gallons} [ICON: pool graphic with gallon size printed over it]
Float{s} {and} {&} Flip{s} {technology} tells {user} {you} when {it's empty} {to replace the {53735-2 Brand Name}}

Crystal clear water {looks inviting}
Softer: Water feels silky soft {without bleaching swimsuits or damaging surfaces}.
{Minerals make} {A} {The} difference you can {see and} feel

{It} Float{s} til{l} {flipped} {it flips} {it rolls over}
{Make it easy} with {Brand} {Mineral System} {Products}
Dispenses in 90 minutes.

Prepare for pool envy
{Brand}. Creating pool pride since 1997.
Paradise awaits. Float on.

Less work. More {play} {fun}.
Same {great product} {innovative technology} – {new name} new look
Tending to your pool has never been easier

The easy way to tend your pool
1-2-3 Hassle-Free
Stop algae before it starts – guaranteed for 90 days with {53735-9 Brand Name}
Insanely Cool Pool Care

{Maintaining 0.5 ppm {1.0 ppm}, chlorine lasts twice {2X} {two times} as long {longer} with FROG Minerals

[All text is optional]

Easier: Prefilled {cartridges} {pacs} {chambers} for no mess, no guess, no stress {pool care}
You're minutes away from your happy place.

Hassle free hot tub sanitization {water care} {maintenance}
{Contains} {Includes} {2 cartridges} {(minerals and chlorine)} {1 FROG Minerals and 1 53735-2
Brand Name} {for 1 complete system}
Tether{s} {it} to {the} pool {side} {or ladder} with {the} {enclosed} cord {provided}
Floats in the pool {– flips when empty. Simply replace chlorine cartridge}
Simply plop {it} in the pool – flips when {it's out} {empty}
Minerals {destroy bacteria} reduc{e}{ing} {cuts} chlorine use up to 50%*.

[Copy on insert card in several FROG Minerals products – all text is optional]

Connect with us for special offers and helpful tips. Provide your email to receive offers, helpful hints, product information and more. Sign up now and be entered in our monthly drawing to win a special {Brand} gift. These include {Brand} product, water bottles, towels, and more. Or register online at [company website]

Product Purchased: {list of 2 or more product names}

Please Print: Name, email (please print carefully – you can opt out from receiving emails at any time., phone (home, mobile, work), Retailer (if known), city, state

{The {Brand} System uses minerals to} extend {the life of} your chlorine {- up to twice} {2X} {two times} {as long} {longer} {than pools on chlorine alone}.

Replace {53735-2 Brand Name} when flipped over

Chlorine extender.

Taking water care in a fresh direction

Fresh Mineral Water[∞] {care for your} pool {care}

Crystal clear pool water that is easier to maintain

Stress-free seasonal pool care

One complete sanitizing system creates Fresh Mineral Water[∞]

Why replace your minerals? Chlorine pacs last longer – water feels softer. Take one home today.

Don't forget your minerals. Keeps your water cleaner, clearer and softer.

Freedom from Water Care Worries

Carefree Water Care

Free from measuring or handling chlorine

Water Care that Gives You More Free Time

Set Yourself Free!

Want More Freedom to Enjoy Your Pool?

Freedom to Enjoy Your Pool.

Freedom to Relax and Have Fun

Enjoy the Freedom of Easy Water Care!

{Brand} Freedom: Be Free.

Water care worries? Set yourself free.

[All text is optional]

Feel the Splash of Freedom!
Freedom to spend all day in the pool.
The Smartest Way to Clean, Clear, Easy Water Care!

Water Care that Gives You Back More Time
Get the Max from Chlorine with Minimal Use – up to 50% less!
One smarte system for one clean, crystal-clear pool.

The Smartest Water Care System for clean, crystal-clear pools.
Be Smart, and Love Your Pool all Season Long
The Smart Way for More Pool Fun!

A smarter, easier way to water care
So smart, your pool will be brilliant
The smartest way to {start up} {winterize} your pool

{Brand} Test Strips included
For any pool 5-10K gallons
Killing bacteria – Replace 3-4 weeks

The system {will} slowly flip{s} over - replace when empty
Prefilled {pacs} {chambers} for no mess, no guess and no stress [ICON: image or product in circle]
Reduces chlorine use up to 50%* [ICON: 50% inside a circle]

{Plus} {Also} {Package} {Bundle} {Kit} {Set} {contains} {includes}
FROG Minerals {(shown left)}
{# {53735-2 Brand Name}}
{# {Brand Name} Test Strips}
{# {Brand Name} Non-Chorine Shock {packets} {pouches}}

Use with the {53735-17 Brand Name} for 6 month algae control. Conveniently fits in the {skimmer}
{pump basket} {Brand System}

{Perfect partner} {Great for use} with {Brand Name} {pool solutions}
Non-staining formula

Fits in any pump basket
{Simply} Drop 'N Go in {the} pump basket

{Built-in} {Easy} {Convenient} Reminder Dial – currently only have Convenient
Compact design ensures smooth water flow in the pump basket
Smaller footprint in pump basket for less restrictions {than competitive products}

Up to 50% less chlorine* {with no frustrating yo-yo chlorine levels} [ICON: circle with 50% in middle]
Using less Trichlor slows the buildup of cyanuric acid

[All text is optional]

Made of recyclable materials and can be recycled when empty [ICON: circle arrows with water drop in center]

Sanitizing Minerals lasts 6 months [IMAGE: product going into pump or skimmer basket]

Perfect for salt pools – increases the life of the salt cell

Improves the {look and feel} {quality} of your water

Improves water quality and {bather} {swimmer} experience

Reduces {chemical demand} {energy use} {the need for specialty chemicals}

Simple to use

Simplif{ying}{ies} pool {care} {maintenance}

Relax and enjoy

Feel the mineral difference

Enjoy your pool more – Work on your pool less

Smaller footprint in pump basket for less restriction {than competitive products}

Non-clogging {cartridge} design {for reliable performance}

No need to check if it is working

{Simply} Drop {N'} {&} Go Convenience – no action needed until time to replace

Improved design for greater performance

{Minimum Advertised Pricing} {MAP} Protected – {More profitable for your business}

Fool proof for busy service technicians

[Optional Copy when sold or packaged with {53735-17 Brand Name} for Algae Control]

For use with {53735-17 Brand Name for Algae Control}
{53735-17 Brand Name} {Kills and} prevents {all types of} {black} {green} {blue-green} {and} {yellow or mustard} algae

Improves water clarity and filter efficiency with no foaming [ICON: leaf with water drop]
{53735-17 Brand Name} {Technology} lasts {x days} {x weeks} {x months} **[time based on volume of product]** [IMAGE: product going into skimmer basket]

Fresh Mineral Water[∞]

The alternative way to sanitize plus prevent and kill algae

A fresh approach to Cleaner, Clearer, Softer water that is Easier to take care of and algae free.

Sanitizing minerals kill bacteria while reducing chlorine use

{53735-17 Brand Name} keeps algae away for water that shines

Uses less chlorine and conditions the water for softness

Prefilled for no mess, no guess, no stress

Destroys algae

Goes to work {immediately} {in less than an hour}

{Fast acting {and} {long lasting}}

4 chelators for extra stain protection

Protects pool surfaces with 4 stain inhibitors

{Reduces the} {No} need for clarifiers, flocculants, enzymes, phosphate removers or other algaecides.

{For use in {large} {small} {residential} {swimming}} {Sanitizer {53735-RI Brand Name} + Algaecide for} pools {5K to 10K} {up to {10K} {7.5K to {10K {12K} {15K}} {15K} {20K} {25K} {30K}} {5000-10,000} {10,000-20,000} {10,000-25,000} {20,000-30,000} gallons

Contains # {53735-17 Brand Name}, # FROG Minerals {and # Test Strips}

{Large} {Small} Pool

Proactive bacteria/algae defense

{No splash} {dry} {light weight} {concentrated} {formula} {formulation} for more effective water care

Compact and modular

Easy storage – no freezing

Dry {copper} chemistry

No spills

{Expert} {Precise} dos{e}{ing} – one {sachet} {pod} per 10,000 gallons

Stain Guard {offers} 4X chelation to prevent staining

Great for pool closing!

Super easy use instructions – see the convenient {sachet} {pod} usage chart

[Hot Tub Products used with Chlorine, Bromine or 53735-10 or 53735-16]

[Product Description 5 and Directions for Use for Hot Tub Cartridge for In-Line or Floating System with 53735-10 or 53735-16 Brand Name]

**For use in the {Brand} {In-Line System} {or the} {Brand} {Floating System}
Fresh Mineral Water[∞] Cleaner, Clearer, Softer and Easier**

Product Description: The FROG Minerals 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 {Brand} Mineral {System} {Technology} {Formula}+ with reduced levels of bromine improves hot tub pleasure by reducing the problems associated with bromine including faded bathing suits, premature damage to hot tub equipment or surfaces and smelly odors.

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

Directions for Use:

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

For use in hot tubs up to 600 gallons. Use this FROG Minerals with the {53735-10 or 53735-16 Brand Name} in either the In-Line System or Floating System. Ensure all hot tub equipment is working properly. {Operate the pump and filter as recommended by your hot tub manufacturer.} {The pump and filter should be operated at least 3 hours per day.} Clean filter following manufacturer's directions. Adjust pH to between 7.2 – {7.6} {7.8}. With a freshly filled hot tub, establish a bromine or chlorine residual of 1.0-2.0 ppm with {an EPA approved hot tub shock} or {53735-12 Brand Name}.

Always maintain a bromine residual of at least 1.0 ppm. Shock hot tub {with Brand Name} once a week or if the water looks cloudy. When using other products as outlined in directions for this product, always follow directions on those products. Keep the hot tub free of leaves and debris.

Setting FROG Minerals: While holding the bottom of the cartridge, turn the top until the number 6 appears in the setting window. This cartridge may be used in one of the following applications:

Using the In-Line System: Open cap of In-Line System. {Push down and turn cartridge holder counterclockwise to unlock.} Pull holder out. Snap the FROG Minerals into the {area marked "Minerals"} {{top portion}} {making sure to line up the indentation near the top of the cartridge with the raised line on the holder}. For best results insert the {53735-10 or 53735-16 Brand Name} in the {area marked "Bromine or SmartChlor"} {{bottom portion}}. When cartridge is snapped in, replace holder {by lining up arrow on handle with arrow on system lip, push down and lock in place}. Replace cap.

Using the Floating System: Push the FROG Minerals into the bottom opening of the floating system. For best results insert the {53735-10 or 53735-16 Brand Name} into the other opening. Set entire system in the hot tub water.

[Operational Instructions for Product Description 5a for Hot Tub Cartridge used in Floating System with 53735-10 or 53735-16 Brand Name]

[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

Floating System Operating Instructions

The {Brand} Floating System has two replaceable cartridges. The combination provides the Fresh Mineral Water[∞] benefits of cleaner, clearer and softer water that's easier to take care of.

- {insert color} = FROG Minerals
- {insert color} = {53735-10 or 53735-16 Brand Name}

Step One: Prepare the Hot Tub

1. {Fill hot tub with fresh water.} Have your dealer test your water before filling the hot tub. If using source water that is high in calcium hardness, iron or other metals, {see} your dealer {may recommend} {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 through 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 {2} {6} hours before testing again and adding any additional balancing chemicals.
 - a. Take a water sample from the hot tub and dip a {Brand} Test Strip into it.
 - b. Look at the Total Alkalinity reading first. {Use {Brand Name}} {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. After Total Alkalinity is in range, test for pH. It should be between 7.2 and {7.6} {7.8}. If higher, add {Brand Name} {a pH down adjuster} or if lower, add {Brand Name} {a pH up adjuster}.
 - d. Lastly test for Total Hardness {again. If you were able to use fill water low in hardness, you may now have to add {Brand Name} {Hardness Increaser} to maintain} {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 {Brand Name} {Calcium Hardness Increaser}.}

Water Balance Guidelines

pH:	7.2 – 7.6 {(Max: 7.8)}
Total Alkalinity:	80 – 120 ppm
Total Hardness:	150-250 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	0-50 ppm {(Max: 80)}
*Free Bromine:	1.0 – 2.0 ppm

If balancing takes longer than 2 days, shock the water {with {53735-12 Brand Name} {53735-13 Brand Name}} and maintain a chlorine level while continuing balancing.

4. **Very Important!** After balancing and before using cartridges, {if you haven't already added a shock during balancing,} establish an initial residual of 1.0-2.0 ppm bromine or chlorine. For best results use {53735-12 Brand Name} {53735-13 Brand Name} start-up shock, included in this package, that quickly dissolves with an effervescent {fizzing} action – one packet per 600 gallons. Do not use a non-chlorine shock {at start-up}.
5. Heat water to the manufacturer's recommended temperature {before using cartridges}.

Step Two: Set the Cartridges

- Set the FROG Minerals 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.

- Set the {53735-10 or 53735-16 Brand Name} to the setting that matches your hot tub size in gallons. For one week test the water daily with {Brand} Test Strips and adjust cartridge up or down by 1 setting per day until the color on the test strip matches the ideal {Brand} bromine range of 1.0 to 2.0 ppm.

System Setting Chart	
200 Gallons	#
{250 Gallons}	#
{300 Gallons}	#
{350 Gallons}	#
{400 Gallons}	#
{450 Gallons}	#
{500 Gallons}	#
600 Gallons	#

Step Three: Put the System to Work

- Insert both cartridges into the {insert color} floating holder by pushing them into the openings until they stay in place.
- Let the {Brand} Floating System free float in the hot tub.
- When using the hot tub, simply remove the FROG Minerals, drain the water into the hot tub and invert on the side of the hot tub.
- REMEMBER TO RETURN {BRAND} SYSTEM TO HOT TUB WHEN YOU GET OUT!

Replacing Cartridges

- Replace {insert color} FROG Minerals every four months or when draining and refilling hot tub
 - Discard it in the trash even if it appears to have media left inside
 - Don't attempt to reuse: the minerals are spent after 4 months
- Replace {insert color} {53735-10 or 53735-16 Brand Name} when empty
 - Life of cartridge varies depending on hot tub size and number of users
 - Drain water from cartridge to ensure it is empty
 - Discard in trash or offer for recycling if available

Step Four: Routine Hot tub Care

- Drain and refill hot tub as directed by your hot tub manufacturer. Whenever you drain and refill, make sure to replace your {Brand} Minerals.
- Run filtration system as recommended by your hot tub manufacturer.
- Regularly test water. Maintain pH, Total Alkalinity and total hardness levels with the precise {Brand} Test Strips.

NOTE: Water balance is affected by bather load, chemical usage, evaporation and the makeup of source water so maintaining water balance regularly is important.

- Maintain at least 1.0 ppm bromine level at all times.
- NOTE: Bromine levels are lower only when used with FROG Minerals
- Shock the hot tub once a week or as needed with {Brand Name} easy single-dose shocking.
 - Additional shocking may be required if the hot tub is under heavy use. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-10 or 53735-16 Brand Name}'s effectiveness.
 - Replace FROG Minerals and {53735-10 or 53735-16 Brand Name} as directed in {Replacing Cartridges} {Step 3: Put the System to Work}.

Troubleshooting

Cloudy Water or Low Bromine Levels

- Check water balance. Ensure pH, Total Alkalinity and {Total} Hardness are correct.
- Check {53735-10 or 53735-16 Brand Name}. If empty, replace following directions in Step 3: Put System to Work.
- Make sure your FROG Minerals is not older than 4 months as it will be ineffective, and more bromine will be required to maintain the hot tub until you replace the FROG Minerals.
- Shock the hot tub with {Brand Name}, a non-chlorine shock to regain clarity. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-16 Brand Name}'s effectiveness.

High Bromine Levels

- Remove the {Brand} system from the hot tub until the bromine level is down to 2.0 ppm.
- Lower the {53735-10 or 53735-16 Brand Name} 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.

{Register your FROG Minerals} {at frogproducts.com}

{Learn more} at frogproducts.com or call 800-222-0169

Ver la versión en español de este manual en frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Operational Instructions for Product Description 5b for Hot Tub Cartridge used in In-Line System with 53735-10 or 53735-16 Brand Name]

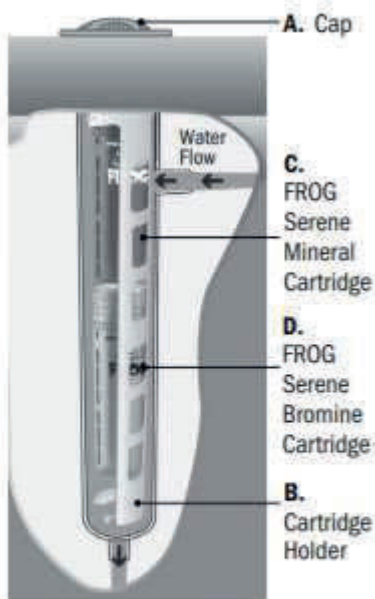
[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

In-Line System Operating Instructions

- {insert color} = FROG Minerals
- {insert color} = {53735-10 or 53735-16 Brand Name}

The In-Line System is made up of:

- (A) a cap that is easily distinguishable among the fittings on the top of the hot tub,
- (B) a cartridge holder that pulls out of the system,
- (C) a FROG Minerals that helps control bacteria in the water and
- (D) a {53735-10 or 53735-16 Brand Name} that helps support the minerals while oxidizing contaminants like body oils and ammonia compounds responsible for smelly chloramines. The cartridges are adjustable to meet your specific hot tub water care needs.



Cut-away view of cartridges snapped into holder and placed into the FROG® Serene™ In-Line System.

Step One: Prepare the Hot Tub

1. {Fill hot tub with fresh water.} Have your dealer test your water before filling the hot tub. If using source water that is high in calcium hardness, iron, or other metals, {see} your dealer {may recommend} {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 through 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 {2} {6} hours before testing again and adding any additional balancing chemicals.

Water Balance Guidelines

pH:	7.2-7.6 {(Max: 7.8)}
Total Alkalinity:	80-120 ppm
Total Hardness:	150-250 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	0-50 ppm {(Max: 80)}
*Free Bromine:	1.0-2.0 ppm

- a. Take a water sample from the hot tub and dip a {Brand} Test Strip into it.
- b. Look at the Total Alkalinity reading first. {Use {Brand Name}} {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. After Total Alkalinity is in range, test for pH. It should be between 7.2 and {7.6} {7.8}. If higher, add {Brand Name} {a pH down adjuster} or if lower, add {Brand Name} {a pH up adjuster}.
- d. Lastly test for Total Hardness {again. If you were able to use fill water low in hardness, you may now have to add {Brand Name} {Hardness Increaser} to maintain} {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 {Brand Name} {Calcium Hardness Increaser}.}

If balancing takes longer than 2 days, shock the water {with {53735-12 Brand Name} {53735-13 Brand Name}} and maintain a chlorine level while continuing balancing.

4. **Very Important!** After balancing and before using cartridges, {if you haven't already added a shock during balancing,} establish an initial residual of 1.0-2.0 ppm bromine or chlorine. For best results use {53735-12 Brand Name} {53735-13 Brand Name} start-up shock that quickly dissolves with an effervescent {fizzing} action – one packet per 600 gallons. {Do not use a non-chlorine shock {at start-up}.}
5. Heat water to the manufacturer's recommended temperature {before using cartridges}.

Step Two: Set the Cartridges

Remove the shrink wrap from both cartridges before proceeding.

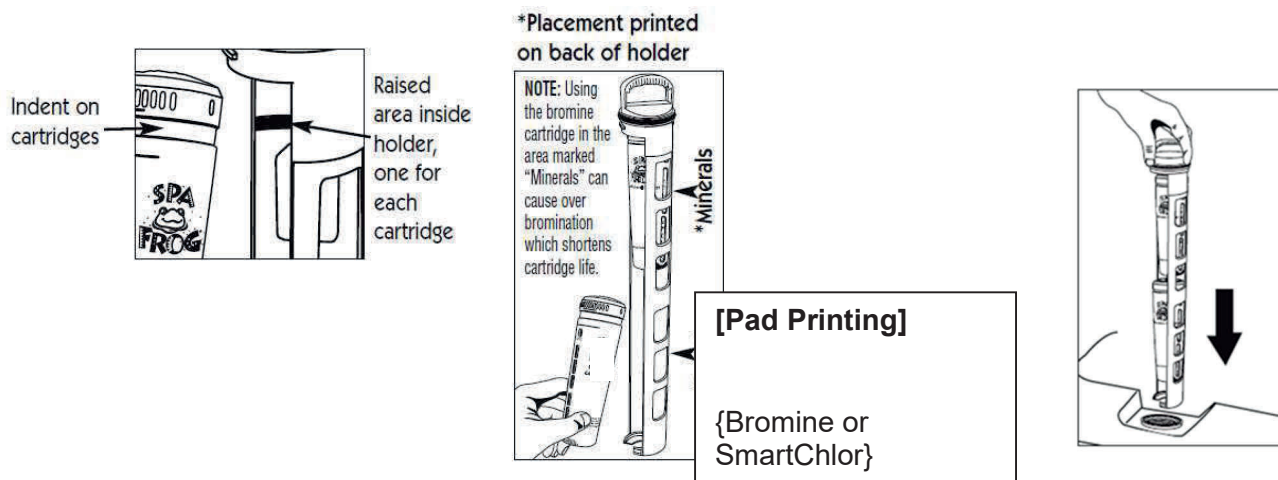
- Set the {insert color} FROG Minerals to #6 (hold the bottom and turn the top until 6 appears in the window). No further adjustments are necessary for the life of the cartridge.
- Set the {insert color} {53735-10 or 53735-16 Brand Name} to the setting that matches your hot tub size in gallons. For one week test the water daily with {Brand} Test Strips and adjust cartridge up or down by 1 setting per day until the color on the test strip matches the ideal {Brand} bromine range of 1.0 to 2.0 ppm.

INITIAL START-UP SETTING

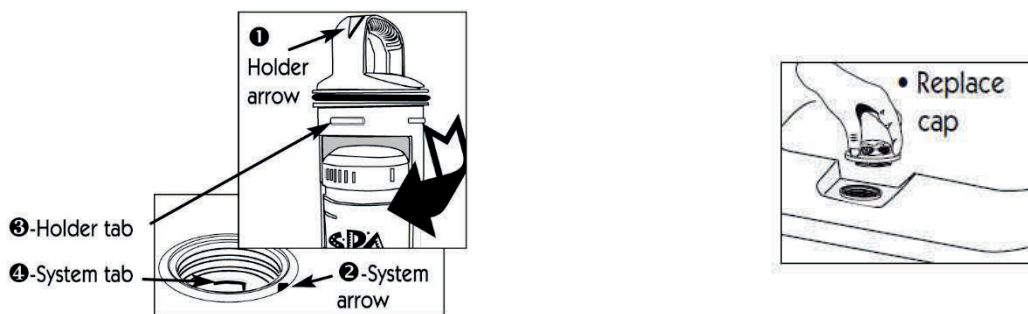
System Setting Chart	
200 Gallons	#
{250 Gallons}	#
{300 Gallons}	#
{350 Gallons}	#
{400 Gallons}	#
{450 Gallons}	#
{500 Gallons}	#
600 Gallons	#

Step Three: Put the System To Work

- Open cap of In-Line System and set aside. DO NOT OPEN CAP WHILE JETS ARE ON.
- Remove holder by pushing down and turning counterclockwise {1/8th turn} before pulling out.
- Snap the FROG Minerals into the area marked "Minerals" (top portion) and the {53735-10 or 53735-16 Brand Name} into the area marked "Bromine or SmartChlor" (bottom portion) {making sure to line up the indentation at the top of the cartridges with the raised area on the holder}.



- Slowly insert holder into system (see diagrams). {Line up holder arrow-① with system arrow-②.} Push down {until holder tabs-③ go past system tabs-④} and turn holder to the right (clockwise) until it stops. To ensure a locked position, attempt to pull holder up. If it stays in place, the lock is secure.



•

Replacing Cartridges

- Replace {insert color} FROG Minerals every four months or when draining and refilling hot tub.
 - Discard it in the trash even if it appears to have media left inside.
 - Don't attempt to reuse: the minerals are spent after 4 months.
- Replace {insert color} {53735-10 or 53735-16 Brand Name} when empty.
 - Life of cartridge varies depending on hot tub size and number of users.
 - Drain water from cartridge to ensure it is empty.
 - Discard in trash or offer for recycling if available.

Step Four: Routine Hot Tub Care

- Drain and refill hot tub as directed by your hot tub manufacturer. Whenever you drain and refill, make sure to replace your {Brand} Minerals.
- Run filtration system as recommended by your hot tub manufacturer to maintain proper water flow through the System.
- Regularly test water {with {Brand} Test Strips and follow directions in Step 1 for maintaining pH, Total Alkalinity and {calcium} {total} hardness.
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.
- Maintain at least 1.0 ppm bromine level at all times.
NOTE: Bromine levels are lower only when used with FROG Minerals
- Shock the hot tub once a week or as needed with {Brand Name}, a non-chlorine shock for easy single-dose shocking. Additional shocking may be required if the hot tub is under

heavy use. Do not use a dichlor shock due to the build up of cyanuric acid that will negatively affect {53735-10 or 53735-16 Brand Name}'s effectiveness.

- Replace your FROG Minerals and {53735-10 or 53735-16 Brand Name} as directed in Step 3: Put the System to Work
- Lubricate in-line holder o-ring twice a year with a silicone lubricant.

Troubleshooting

Cloudy Water or Low Bromine Levels

- Check water balance. pH and Total Alkalinity need to be in the proper ranges for the {Brand} In-Line System to work correctly.
- Check {53735-10 or 53735-16 Brand Name} {and replace if empty following directions in Step {Three} {3}: Put the System to Work.
- Make sure your FROG Minerals is not older than 4 months as it will be ineffective, and more bromine will be required to maintain the hot tub until you replace the FROG Minerals.
- Shock the hot tub with {Brand Name} {or} {a non-chlorine shock} {to regain clarity}. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-10 or 53735-16 Brand Name}'s effectiveness.

High Bromine Levels

- Remove the {53735-10 or 53735-16 Brand Name} from the In-Line System until the bromine level is down to 2.0 ppm.
- Lower the {53735-10 or 53735-16 Brand Name} setting by 1 number and replace cartridge in the In-Line System.
- Test in 24 hours. Repeat process until bromine level stays within 1.0 to 2.0 ppm.

Learn more at frogproducts.com or call 800-222-0169

Register your FROG Minerals at frogproducts.com

Ver la versión en español de este manual en frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Product Description 6 and Directions for Use for Filter Hot Tub Product used with any EPA registered source of chlorine or bromine]

Product Description: FROG Minerals {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 {Brand} Mineral {System} {Technology} {Formula}+ with reduced levels of {bromine} {or chlorine} improves hot tub pleasure {by reducing the problems associated with bromine {or chlorine} including {faded} {fading} bathing suits, premature damage to hot tub equipment or surfaces and smelly odors}.

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

Directions for Use:

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

For use in hot tubs up to 600 gallons. Ensure all hot tub equipment is working properly. {Operate the pump and filter for at least 3 hours per day.} {The pump and filter should be operated at least 3 hours per day.} Clean filter following manufacturer's directions. Adjust pH to between 7.2 – {7.6} {7.8}. With a freshly filled hot tub, establish a bromine or chlorine residual of 1.0-2.0 ppm with {{53735-12 Brand Name} shock packet or} an EPA approved hot tub shock. Always maintain a bromine or chlorine residual of at least 1.0 ppm. Shock hot tub {with Brand Name} once a week or as needed. When using other products as outlined in directions for this product, always follow directions on those products. Keep the hot tub free of leaves and debris.

Installing FROG Minerals: {Set reminder dial to four months from month of installation. Turn dial by hand or with a coin if needed.} Place FROG Minerals in one of the following locations:

- a. Majority of Hot Tubs: Insert FROG Minerals inside filter cartridge core. Do not allow product to sit too low in the filter. If blocking water flow, install in filter well. If installed inside a standpipe, attach a string to the {handle on top} {Frog head handle} for easy removal.
- b. High Flow Hot Tubs: On skimmer filters with 2.5 HP or larger pump motors, place FROG Minerals in filter well outside the filter cartridge.
- c. Small Cartridge or Other Hot Tubs: Place FROG Minerals in skimmer tray.

**[Operational Instructions for Product Description 6 Filter Hot Tub
Product used with any EPA registered source of chlorine or bromine]
[All text is optional] [Representative icons/graphic images may be represented
next to each step of the instructions]**

**Mineral Hot Tub Disinfectant Operation Manual
{For Use in Filter Core}
{For use on with {brand}}**

{FROG Minerals}:

- Fits in most filters.
- Handles hot tubs up to 600 gallons.
- Lasts 4 months.
- Easy to set reminder dial.
- Use with bromine or chlorine.

Step 1: Prepare the hot tub

1. {Fill hot tub with fresh water.} {Have your dealer test your water before filling the hot tub. If using source water that is high in iron {calcium hardness} or other metals, {see} your dealer {may recommend} {before filling the hot tub}. {It may require} the use of a metal control product.
2. Clean or replace filter cartridge when dirty
(*Follow manufacturer's directions*).
3. Balance water {by following steps a through d in order} {according to the chart}.
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 {2} {6} hours before testing again and adding any additional balancing chemicals.
 - a. Take a water sample from the hot tub and dip a {Brand} Test Strip into it.
 - b. Look at the Total Alkalinity reading first. {Use {Brand Name}} {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. After Total Alkalinity is in range, test for pH. It should be between 7.2 and {7.6} {7.8}. If higher, add {Brand Name} {a pH down adjuster} or if lower, add {Brand Name} {a pH up adjuster}.
 - d. Lastly test for Total Hardness {again. If you were able to use fill water low in hardness, you may now have to add {Brand Name} {Hardness Increaser} to maintain} {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 {Brand Name} {Calcium Hardness Increaser}.}

Water Balance Guidelines

pH:	7.2 – 7.6 {(Max: 7.8)}
Total Alkalinity:	80 – 120 ppm
Total Hardness:	150-250 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	0-50 ppm {(Max: 80)}
*Free Bromine {or Chlorine}:	1.0 – 2.0 ppm

{If balancing takes longer than 2 days, shock the water {with {53735-12 Brand Name} {53735-13 Brand Name}} and maintain a chlorine level while continuing balancing.}

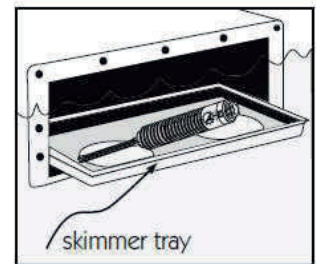
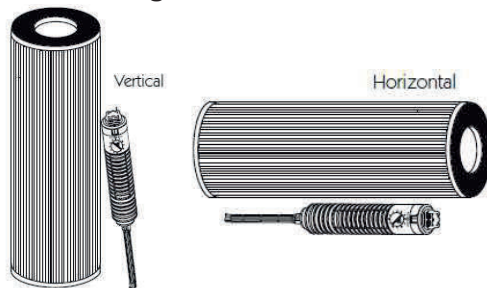
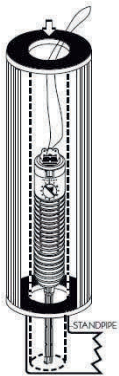
4. {If you haven't already added a shock during balancing,} Shock hot tub to establish a {bromine or} chlorine residual of 1.0-2.0 ppm with an EPA approved hot tub shock. For best results use {53735-12 Brand Name} {53735-13 Brand Name} start-up hot tub shock packet that quickly dissolves with an effervescent {fizzing} action – one packet per 600 gallons
(*Follow manufacturer's directions*).

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

Step 2: Put the System to Work

[OPTION 1]

- {Set reminder dial on FROG Minerals to 4 months from month of installation. Turn dial by hand or with a coin if needed.} {FROG Minerals must be replaced every 4 months from date of installation.} {Replace FROG Minerals after 4 months or when draining and refilling hot tub with fresh water.}
- Place FROG Minerals in one of the following locations in hot tub:
 - (If unit is too tall, cut rod at hash marks to shorten.)
 - a) **Majority of Hot Tubs** – Insert FROG Minerals inside filter cartridge core. Do not allow FROG Minerals to sit too low in the filter. If blocking water flow install in filter well. If FROG Minerals is inside a standpipe, attach a string to the Frog head handle for easy removal.
 - b) **High Flow Hot Tubs** - On skimmer filters with 2.5 HP or larger pump motors, place FROG Minerals in filter well outside the filter cartridge.
 - c) **Small Cartridge or Other Hot Tubs** – Place FROG Minerals in skimmer tray.



[OPTION 2]

- {Place FROG Minerals in hot tub: Locate filter cartridge attached {in} {to} hot tub.
- Remove filter cartridge from inside of hot tub by pulling out straight from the wall.
- Insert a new FROG Minerals into the center opening.
- Replace the filter cartridge.
- Attach by pushing straight into place.
- Finished [callout] Hot Tub Wall}

Step Three: Routine Hot Tub Care

- Drain and refill hot tub as directed by your hot tub manufacturer. {or every four months when FROG Minerals needs to be replaced}.
- Whenever you drain and refill, make sure to replace your {Brand} Minerals.
- Run filtration system {a minimum of three hours per day} {as recommended by your hot tub manufacturer}.
- Regularly test water for pH, Total Alkalinity and bromine {or chlorine} levels. Maintain at least a 1.0 ppm bromine {or chlorine} level at all times. NOTE: Bromine {or chlorine} levels are lower only when used with the {Brand} Mineral{s} {System} {Technology} {Formula}+
- Shock the hot tub {with {Brand Name} for easy single-dose shocking} {a non-chlorine shock} once a week or as needed. Additional shocking may be required if the hot tub is under heavy use.

- The FROG Minerals must be replaced every 4 months. After four months of use or when draining and refilling the hot tub with fresh water, discard FROG Minerals in trash even if, upon shaking, it appears there is spent media left inside. Once wetted the time-released minerals in the cartridge are effective up to four months. Non-refillable container. Do not reuse or refill this product. Do not attempt to reuse the product once removed from the {hot tub}.
{Callout: Set for 4 mos.}

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

Troubleshooting

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

If water is cloudy:

- Check water balance. Ensure pH, Total Alkalinity and {Calcium} {Total} Hardness are correct.
- Make sure your chlorine or bromine levels are at least 1.0-2.0 ppm.
- Make sure your FROG Minerals 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 {FROG Minerals} {minerals}.
- Shock the hot tub with {Brand Name} {or} {a non-chlorine shock} to regain clarity.

[For more information on this or other {Brand} products, visit our website]

Learn more at frogproducts.com or call 800-222-0169

{Register your FROG Minerals at frogproducts.com}

Ver la versión en español de este manual en frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

**[Optional Language for Product Descriptions 5-6 using either an EPA
registered source of chlorine or bromine or 53735-10 or 53735-16
Brand Name]
[All text is optional]**

Proprietary blend of minerals {with {53735-10 or 53735-16 Brand Name}} {plus bromine} {for
sanitizing hot tubs}

{Conveniently} {FROG Minerals} fits inside {the} filter cartridge
Minerals {with low levels of {bromine} {chlorine}} destroy bacteria

Compatible with {Brand Name} {non-chlorine shock} {chlorine} {or} {bromine}

No guesswork. Just less work

Prefilled Stick

4 Months of Fresh

Lasts 4 full months

{Convenient} Reminder Dial

Set {it and forget it} for 4 months. [ICON: dial arrow in circle]

Also works in most skimmers or filter wells

Easy Installation {into most filters}. No Assembly Required. [ICON: arrow pointing down into filter]

Soft feeling water. With {far} {up to 50%*} less {chlorine} {bromine} {that's} {it's} easier on {your} skin,
swimsuits and hot tub surfaces [ICON: Hand holding circle representing water]

For {use in hot tubs} up to 600 gallons

{Patented} {Mineral} {Hot Tub} {Swim Spa} {Sanitizer} {Disinfectant}

Intelligent water care

Unlike chlorine, bromine slowly dissolves in hot water so it's easier to {manage} {regulate}. Plus, far
less odors [ICON: water drop over representation of water in circle]

Bromine is less impacted by pH swings ensuring sanitizing effectiveness [ICON: Level scale with 2
water drops in different colors]

Not just Clean, Serene.

Lower your {chlorine} {or} {bromine} use up to 50% with minerals [ICON: 50% in circle]

Replace {53735-10 or 53735-16 Brand Name} when {Brand} system tilts in the water ({on average}
{about} {approximately} {every} {typically in} 2-4 weeks)

Replace FROG Minerals every four months

Reusable cartridge holder allows for easy cartridge replacement

{Brand} minerals reduce {chlorine} {bromine} use up to 50%

{# Prefilled Cartridges}

{Plus} {Also} {Package} {Bundle} {Kit} {Set} {contains} {includes}

FROG Minerals {(shown left)}

{53735-10 Brand Name} {53735-16 Brand Name}

{# {53735-12 Brand Name} {53735-13 Brand Name}}

{# {Brand Name} Test Strips}

{# {Brand Name} Non-Chlorine Shock {packets} {pouches}}

FROG Minerals works together with very low levels of bromine or chlorine to control bacteria,
condition the water and help neutralize pH.

[All text is optional]

Easier to install

- Insert FROG Minerals into filter cartridge, in filter well or in skimmer
- Lower your bromine or chlorine levels to as low as 1.0 ppm
- Replace FROG Minerals every 4 months or when draining and refilling {spa} {hot tub}

{Brand} Offers More Relaxation

- Simply a more enjoyable {spa} {hot tub} experience
- Permanent rod fits almost all {spas} {hot tubs}
- Welded rod helps prevent breakage
- Inserts easily into filter
- Water feels softer with a crystal clear shine.

Mineral {Spa} {Hot Tub} Care is developed with technology from {Brand}
Simple {Spa} {Hot Tub} Care

Adjusts up to {600} gallons

Just set it and forget it for weeks at a time. [ICON: gauge image in circle]

Step into easy

4 Prefilled Cartridges

1 FROG Minerals - Lasts 4 Months

3 {53735-10 or 53735-16 Brand Name} – {Each} Lasts {2} {3}-4 Weeks

{200 grams each – Lasts 3-5 weeks}

{Replacement Cartridges} {Cartridge Kit} for {Brand} {Floating} [or] {In-Line} {Sanitizing} System{s}
Cartridge Holder / Bromine Cartridge / Mineral Cartridge

[Hot Tub Products used with 53735-14]

[Product Description 7 and Directions for Use for Hot Tub Floating/Flipping System used with 53735-14 Brand Name]

Product Description: A complete two-part system for {hot tubs} {swim spas} up to {600} {3000} gallons consisting of FROG Minerals disinfectant and {53735-14 Brand Name}. This system of sanitizing minerals and up to 75% less chlorine* provides Fresh Mineral Water[®] benefits of cleaner, clearer and softer water that's easier to take care of. The water feels soft and doesn't fade swimsuits, damage equipment or create smelly odors.

Replace the FROG Minerals after 4 months or when draining and refilling {hot tub} {swim spa} with fresh water.

Directions for Use:

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

For use in {hot tubs} {swim spas} up to {600} {3000} gallons. Use with the {53735-14 Brand Name}. Ensure all {hot tub} {swim spa} equipment is working properly. Operate the pump and filter as recommended by your {hot tub} {swim spa} manufacturer. Clean filter following manufacturer's directions. May be used with a previously filled {hot tub} {swim spa} unless it was sanitized with bromine or biguanides {or the cyanuric acid level is higher than 80 ppm}. Then drain and fill the {hot tub} {swim spa} with fresh water before using this product. {Multiple systems may be used for larger gallons (example: 2 up to 1200 gallons, 3 up to 1800 gallons, etc.).}

{See enclosed instruction manual} {Read entire operating instructions} for complete directions for use.

[The following copy is engraved into the plastic container]

Not a toy

No es un juguete

Keep Out of Reach of Children

CAUTION

EPA Reg. No.: 53735-RI{-xxxxx}

Patents: {kingtechnology.com/IP} [OR] {heycoolpool.com/IP}

[Operational Instructions for Product Description 7 Hot Tub Floating/Flipping System used with 53735-14 Brand Name]
[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

Floating Sanitizing System Operating Instructions

This is not a toy. For sanitizing {hot tubs} {swim spas} only! Keep out of reach of children when using the hot tub.

{Brand} is the hot tub sanitizing system that takes the guess-work out of water care, so you always feel at ease while enjoying your hot tub.

The {Brand} Floating System has two replaceable cartridges.

- Top Half {insert color} FROG Minerals
- Bottom Half {insert color} {53735-14 Brand Name}

The combination provides the Fresh Mineral Water[∞] benefits of cleaner, clearer and softer water that's easier to take care of.

Read entire operating instructions for complete directions for use.

Step One: Prepare the {Hot Tub} {Swim Spa}

1. {Fill {hot tub} {swim spa} with fresh water.} Have your dealer test your water before filling the {hot tub} {swim spa}. If using source water that is high in calcium, iron or other metals, {see} your dealer {may recommend} {before filling the {hot tub} {swim spa}}. {It may require} the use of a metal control product. If previously using bromine and switching to {Brand System}, you must drain and refill your {hot tub} {swim spa} before using this product. If previously using dichlor you may convert to {Brand System} without having to drain the {hot tub} {swim spa} as long as the cyanuric acid level is below 80 ppm.
2. Clean or replace filter cartridges when dirty (*Follow manufacturer's instructions*).
3. Balance water following steps a through 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 {2} {6} hours before testing again and adding any additional balancing chemicals.
 - a. Take a water sample from the {hot tub} {swim spa} and dip a {Brand} Test Strip into it.
 - b. Look at the Total Alkalinity reading first. {Use {Brand Name}} {Adjustments should be made} to bring the Total Alkalinity in the range of 80 – {100} {120} ppm prior to making any adjustments to pH even if it throws pH off further. {Since pH tends to rise in hot tubs, maintaining a Total Alkalinity closer to the low end of 80 will make managing the hot tub easier.} {If your pH tends to fall, then maintain Total Alkalinity closer to {100} {120} ppm.}
 - c. After Total Alkalinity is in range, test for pH. It should be between 7.2 and {7.6} {7.8}. If higher, add {Brand Name} {a pH down adjuster} or if lower, add {Brand Name} {a pH up adjuster}. {Again, due to rising pH in {hot tubs} {swim spas}, try to maintain as close to the low end of 7.2 as possible.}
 - d. {Lastly} test for Total Hardness {again. If you were able to use fill water low in hardness, you may now have to add {Brand Name} {Hardness Increaser} to maintain} {It should be} between 150 and 250 ppm. {If higher, partially drain the {hot tub} {swim spa} (about 6 inches) and fill with water low in calcium. If lower, add {Brand Name} {Calcium Increaser}.}

Water Balance Guidelines

pH:	7.2 – 7.6 {(Max: 7.8)}
Total Alkalinity:	80 – {100} {120} ppm
{Total} Hardness:	150-250 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	0-50 ppm {(Max: 80)}

If balancing takes longer than 2 days, shock the water {with {53735-12 Brand Name} {53735-13 Brand Name}} and maintain a chlorine level while continuing balancing.

4. **Very Important!** After balancing and before using cartridges, {if you haven't already added a shock during balancing} establish an initial residual of 0.5-1.0 ppm free chlorine with {53735-12 Brand Name} {53735-13 Brand Name} start-up shock, {included in this package,} that quickly dissolves with an effervescent fizzing action – one packet per 600 gallons.
5. Heat water to the manufacturer's recommended temperature {before using cartridges}.

Step Two: Put the {Brand} System To Work

INITIAL START-UP SETTING

{Brand Name} Setting Chart	
Gallons	Setting #
x – x	#
x – x	#
x – x	#
x – x	#
{x - x}	{#}
{x - x}	{#}

[Note to Reviewer: The hot tub gallon range in the setting chart will be between 200 and 600 gallons while the swim spa gallon range will be between 1000 and 3000 gallons]

Simply follow these easy steps:

1. Remove {outer packaging} {cap} from {FROG Minerals and} the {53735-14 Brand Name} {by squeezing the bottom and turning}.
2. **[OPTION 1]** Line up arrows on both cartridges, push together and lock.
[OPTION 2] Insert FROG Minerals into the section of the reusable floating holder that fits that shape. Make sure it snaps in securely and stays in place. Insert the {53735-14 Brand Name} into the other section in the same way.
3. Twist the dial on the {53735-14 Brand Name} to the setting number for your {hot tub} {swim spa} (see chart based on gallons) [Diagram Callout: Setting # on the {53735-14 Brand Name}]
4. Toss into the {hot tub} {swim spa}. It will float in the water at a slight tilt. {Multiple systems may be used for larger gallons (2 up to 1200 gallons, 3 up to 1800 gallons, etc.).}
5. If you like, remove {Brand} System from the {hot tub} {swim spa} while soaking. Lift out {Brand} System and let drain into the {hot tub} {swim spa}. Place on any surface not susceptible to chlorine bleaching. Remember to return it to the {hot tub} {swim spa} afterwards.

Replacing Cartridges

- A. When the {Brand} Floating System flips completely over, remove the {insert color} {53735-14 Brand Name}.
 - {53735-14 Brand Name} will last {about} {2 to 3} {2 to 4} {3 to 4} {4} weeks for an average {400 gallon hot tub} {or 2000 gallon swim spa}
 - Floating System naturally {lists} {tilts} in the water. To check if {53735-14 Brand Name} is empty, lift up and drain all water from the system, then replace in the {hot tub} {swim spa} and see if it flips completely.
 - Detach {53735-14 Brand Name} by twisting to align with “unlock” arrow and pull apart.

- Attach new cartridge (see Step 2: Put the System to Work). If using multiple systems, one may flip over before the other. Always replace {53735-14 Brand Name} as soon as each system flips over. {Do not wait for both to flip before replacing {53735-14 Brand Name}.}
 - Discard in trash or offer for recycling if available. NOTE: If the {53735-14 Brand Name} still contains a small amount after detaching, place in {hot tub} {swim spa} to float on its own until empty. Do not let it sink to bottom as it may bleach {hot tub} {swim spa} surface.
- B. After 4 months or when draining and refilling the {hot tub} {swim spa}, the {color} FROG Minerals must be replaced even if you hear the spent minerals inside. This cartridge is available only in the {Brand System}.

Step Three: Routine {Hot Tub} {Swim Spa} Care

- Drain and refill {hot tub} {swim spa} as directed by your {hot tub} {swim spa} manufacturer {or every four months when FROG Minerals needs to be replaced}. Whenever you drain and refill, make sure to replace your {Brand} Minerals.
- Run filtration system as recommended by your {hot tub} {swim spa} manufacturer.
- Regularly test water with {Brand} Test Strips and follow directions in Step One for maintaining pH, Total Alkalinity and {Calcium} {Total} Hardness.

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.

- {53735-14 Brand Name} will maintain a 0.5 to 1.0 ppm free chlorine level as long as the water is balanced.

NOTE: Free chlorine levels are reduced up to 75%* when using {Brand Minerals}

NOTE: Why {Brand} Test Strips? The {53735-14 Brand Name} forms a chlorine reserve that will be inaccurately measured as total chlorine on other test strips. Unlike conventional chlorine, the {53735-14 Brand Name} reserve readily shifts to free chlorine as needed, maintaining {hot tub} {swim spa} health with a low level of chlorine.

- Shock the {hot tub} {swim spa} with {Brand Name}, a non-chlorine shock for easy single-dose shocking when you replace the {53735-14 Brand Name}, or once a month. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.

{NOTE: If shocking every other week, you may turn the {53735-14 Brand Name} dial down one setting to help extend the life of {53735-14 Brand Name} {the sanitizer in the water}.}

- Replace the {53735-14 Brand Name} when the system flips over and {replace} the complete {Brand} System that includes a FROG Minerals {every 4 months} as directed under {Replacing Cartridges} {Step 2: Put the System to Work}.

Troubleshooting

Cloudy Water or Low Chlorine Levels

- Shock the {hot tub} {swim spa} with {Brand Name}, a non-chlorine shock. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.
- Check water balance. pH and Total Alkalinity need to be in the proper ranges for the {Brand} System to work correctly
- Check {53735-14 Brand Name} and replace if empty—see instructions under Replacing Cartridges} {Step 2: Put the System to Work}.

- If {53735-14 Brand Name} is not empty, turn dial setting up one number while maintaining water balance. If needed turn the dial up again.
- Check your calendar. The entire {Brand System}, including a FROG Minerals, needs to be replaced every four months. Without the minerals, {53735-14 Brand Name} will not be enough to sanitize the {hot tub} {swim spa}.

{53735-14 Brand Name} Life

- If {hot tub is larger than 400 gallons} {swim spa is larger than 2000 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 one number while maintaining water balance. If needed turn the dial down again.
- If {Brand} System is continually sucked into the skimmer or filter well, tether the product to the tub away from the jets.
- Remove {Brand} System while using the hot tub with the jets running

High Chlorine Levels

- This is highly unlikely with {Brand System} because {53735-14 Brand Name} 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 {53735-14 Brand Name} reserve, which will shift to free chlorine as needed. Please always use the {Brand} Test Strips that were included with your System.

Learn more at frogproducts.com or call 800.222.0169

Register your {Brand System} at frogproducts.com

Ver la versión en español de este manual en frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Product Description 8 and Directions for Use for Hot Tub In-Line System used with 53735-14 Brand Name]

Product Description: A complete two-part system consisting of FROG Minerals disinfectant and {53735-14 Brand Name} for hot tubs up to 600 gallons. This system of sanitizing minerals and up to 75% less chlorine* provides Fresh Mineral Water[∞] benefits of cleaner, clearer, and softer water that's easier to take care of. The water feels soft and doesn't fade swimsuits, damage equipment or create smelly odors.

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

Directions for Use:

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

For use in hot tubs up to 600 gallons. Use this FROG Minerals with the {53735-14 Brand Name} in the {Brand} {In-Line} {Sanitizing} System. Ensure all hot tub equipment is working properly. Operate the pump and filter {for at least 3 hours per day} {as recommended by your hot tub manufacturer}. Clean filter following manufacturer's directions. May be used with a previously filled hot tub unless it was sanitized with bromine or biguanides {or the cyanuric acid level is higher than 80 ppm}. Then drain and fill the hot tub with fresh water before using this product.

Balance the water {according to the water balance guidelines} with pH between 7.2 – {7.6} {7.8} and Total Alkalinity between 80 and {100} {120} ppm. {With a freshly filled hot tub, begin with {53735-12 Brand Name} {53735-13 Brand Name} start-up shock {that came in the package} following the directions on that product.

{{53735-14 Brand Name} will} Always maintain a {free} chlorine residual {with {53735-14 Brand Name}} of 0.5 to 1.0 ppm {as long as the water is balanced}. Shock hot tub {with Brand Name} when you replace a {53735-14 Brand Name} or once a month. {When using other products as outlined in directions for this product, always follow directions on those products. Keep the hot tub free of leaves and debris.

Setting FROG Minerals: While holding the bottom of the cartridge, turn the top until the number 6 appears in the setting window. {No adjustments are needed}

{Using the {In-Line} System: Open cap of In-Line System. {Push down and turn cartridge holder counterclockwise to unlock.} Pull holder out. Snap the FROG Minerals into the area marked "Minerals" (top portion) {making sure to line up the indentation near the top of the cartridge with the raised line on the holder}. {For best results,} insert the {53735-14 Brand Name} in the area marked "Bromine or SmartChlor" (bottom portion). {When cartridge is snapped in,} replace holder {and turn holder clockwise until it stops} {by lining up arrow on handle with arrow on system lip, push down and lock in place}. Replace cap.}

{Using the {Brand} {Filter} {Basket} {Weir} System: In the {weir} {basket} are two round openings. Insert FROG Minerals into one opening and push down firmly to ensure the cartridge is snapped in place. Insert {53735-14 Brand Name} into the other opening in the same way.}

[Operational Instructions for Product Description 8 Hot Tub In-Line System used with 53735-14 Brand Name]

[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

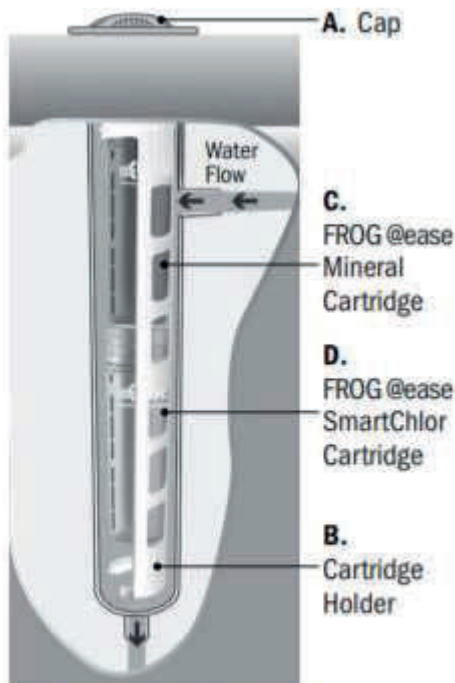
In-Line Sanitizing System Operating Instructions

{{Brand}} System is the hot tub sanitizing system that takes the guess work out of water care, so you always feel at ease while enjoying your hot tub.

- {{Brand}} creates Fresh Mineral Water[∞] that's cleaner, clearer and softer
- {{Brand}} employs {{53735-14 Brand Name}} Technology that knows when and how much free chlorine is needed so it uses up to 75% less.*
- {{Brand}} requires far less shocking – only once a month!

[Callouts]: FROG Minerals ({{color}}), {{53735-14 Brand Name}} ({{color}})

{The In-Line System is made up of (A) a cap that is easily distinguishable among the fittings on the top of the hot tub, (B) a cartridge holder that pulls out of the system, (C) a FROG Minerals that helps control bacteria in the water and (D) a {{53735-14 Brand Name}} that helps support the minerals while oxidizing contaminants like body oils and ammonia compounds responsible for smelly chloramines. The cartridges are adjustable to meet your specific hot tub water care needs.}



Cut-away view of cartridges snapped into holder and placed into the In-Line

[This image and call out is optional]

Step One: Prepare the Hot Tub

1. {Fill hot tub with fresh water.} Have your dealer test your water before filling the hot tub. If using source water that is high in calcium, iron, or other metals, {see} your dealer {may recommend}

{before filling the hot tub}. {It may require} the use of a metal control product. If previously using bromine and switching to {{53735-14

Brand Name}}, you must drain and refill your hot tub before using this product. If previously using dichlor you may convert to {{53735-14 Brand Name}} without having to drain the hot tub as long as the cyanuric acid level is below 80 ppm.

2. Clean or replace filter cartridges when dirty (*Follow manufacturer's instructions*).

3. Balance water by following steps a through 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 {2} {6} hours before testing again and adding any additional

Water Balance Guidelines

pH:	7.2-7.6 {{(Max: 7.8)}}
Total Alkalinity:	80-{{100}} {{120}} ppm
{{Calcium}}{Total} Hardness:	150-250 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	0-50 ppm {{(Max: 80)}}

balancing chemicals.

- a. Take a water sample from the hot tub and dip a {{Brand}} Test Strip into it.
- b. Look at the Total Alkalinity reading first. {Use {{Brand Name}}} {Adjustments should be made} to bring the Total Alkalinity in the range of 80 – {{100}} {{120}} ppm prior to making any adjustments to pH even if it throws pH off further. {Since pH tends to rise

in hot tubs, maintaining a Total Alkalinity closer to the low end of 80 will make managing the hot tub easier.} {If your pH tends to fall, then maintain Total Alkalinity closer to {100} {120} ppm.}

- c. After Total Alkalinity is in range, test for pH. It should be between 7.2 and {7.6} {7.8}. If higher, add {Brand Name} {a pH down adjuster} or if lower, add {Brand Name} {a pH up adjuster}. {Again, due to rising pH in hot tubs, try to maintain as close to the low end of 7.2 as possible.}
- d. {Lastly} test for Total Hardness {again. If you were able to use fill water low in hardness, you may now have to add {Brand Name} {Hardness Increaser} to maintain} {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 {Brand Name} {Calcium Increaser}.}

{If balancing takes longer than 2 days, shock the water {with {53735-12 Brand Name} {53735-13 Brand Name}} and maintain a chlorine level while continuing balancing.}

4. **Very Important!** After balancing and before using cartridges, {if you haven't already added a shock during balancing,} establish an initial residual of 0.5-1.0 ppm free chlorine with {53735-12 Brand Name} {53735-13 Brand Name} start-up shock, included in this package, that quickly dissolves with an effervescent fizzing action – one packet per 600 gallons.
5. Heat water to the manufacturers recommended temperature.

Step Two: Set the Cartridges

Remove the shrink wrap from both cartridges before proceeding.

- Set the {insert color} FROG Minerals to #6 (hold the bottom and turn the top until 6 appears in the window). No further adjustments are necessary for the life of the cartridge.
- Set the {insert color} {53735-14 Brand Name} to the setting that matches your hot tub size in gallons. {53735-14 Brand Name} will maintain a low 0.5 to 1.0 ppm chlorine level as long as the pH stays within 7.2 and {7.6} {7.8} so there is little need to adjust the cartridge setting. If needed, you have two additional settings to increase output.

INITIAL START-UP SETTING

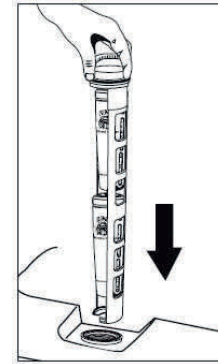
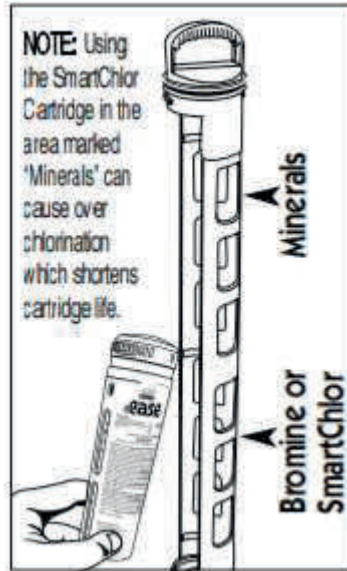
{Brand Name} Setting Chart	
Gallons	Setting #
x-x	#
x-x	#
x-x	#
x-x	#
{x-x}	{#}
{x-x}	{#}

[Note to Reviewer: the hot tub gallon range in the setting chart will be between 200 and 600 gallons]

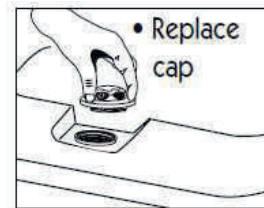
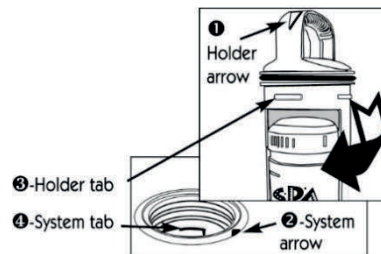
Step Three: Put the System to Work

[OPTION 1] {In-Line System}

- Open cap of In-Line System and set aside. DO NOT OPEN CAP WHILE JETS ARE ON.
- Remove holder by {pushing down and} turning counterclockwise {1/8th turn} before pulling out.
- Snap the FROG Minerals into the area marked “Minerals” (top portion) and the {53735-14 Brand Name} into the area marked {“Bromine or SmartChlor” (bottom portion) {making sure to line up the indentation at the top of the cartridges with the raised area on the holder}.



- Slowly insert holder into system (see diagrams). {Line up holder arrow 1 with system arrow 2.} Push down {until holder tabs 3 go past system tabs 4} and turn holder to the right (clockwise) until it stops. To ensure a locked position, attempt to pull holder up. If it stays in place, the lock is secure.



[OPTION 2] {Filter {Weir} {Basket} System}

- Insert FROG Minerals into one opening of the {weir} {basket} and push down firmly until it {clicks} {snaps} {locks} in place securely. [Callout:] Openings for {Brand} Cartridges
- Insert {53735-14 Brand Name} into the other opening in the same way.

Replacing Cartridges

- Replace {insert color} FROG Minerals every four months or when draining and refilling hot tub.
 - Discard it in the trash even if it appears to have media left inside.
 - Don't attempt to reuse: The minerals are spent after 4 months.
- Replace {insert color} {53735-14 Brand Name} when empty based on the {Brand} test strip showing a lighter color than the out indicator on the {test strip} bottle.
 - The life of the cartridge varies depending on hot tub size and number of users. The {53735-14 Brand Name} will last {about} {up to} {2 to 3} {2 to 4} {3 to 4} {4} weeks for an average 400 gallon hot tub.
 - Drain water from cartridge to ensure it is empty.
 - Discard in trash or offer for recycling if available.

Step Four: Routine Hot Tub Care:

{Always follow the directions for operating your particular hot tub.}

- Drain and refill hot tub as directed by your hot tub manufacturer {or every four months when {Brand} Minerals need to be replaced}. Whenever you drain and refill, make sure to replace your {Brand} Minerals.
 - {To sign up for a subscription to receive FROG Minerals every 4 months, contact {Brand website}.}
- Run filtration system as recommended by your hot tub manufacturer to maintain proper water flow through the {In-Line} System.
- Regularly test water with {Brand} Test Strips and follow directions in Step One for maintaining pH, Total Alkalinity and {Calcium} {Total} Hardness.
- 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.
- {53735-14 Brand Name} will maintain a 0.5 – 1.0 ppm free chlorine level as long as the water is balanced.

NOTE: Free chlorine levels are reduced up to 75%* when using {Brand} Minerals

NOTE: Why {Brand} Test Strips? The {53735-14 Brand Name} forms a chlorine reserve that will be inaccurately measured as total chlorine on other test strips. Unlike conventional chlorine, the {53735-14 Brand Name} reserve readily shifts to free chlorine as needed, maintaining hot tub health with a low level of chlorine.

- Shock the hot tub with {Brand Name}, a non-chlorine shock for easy single-dose shocking when you replace the {53735-14 Brand Name} or once a month. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.

{NOTE: If shocking every other week, you may turn the {53735-14 Brand Name} dial down one setting to help extend the life of {53735-14 Brand Name} {the sanitizer in the water}.}

- Replace your {53735-14 Brand Name} cartridges {when empty} and {replace} the complete {Brand} System (that comes with a FROG Minerals) {every 4 months} as directed under Step 3: Put the System to work.
- Lubricate In-line holder o-ring twice a year with a silicone lubricant.

Troubleshooting

Cloudy Water or Low Chlorine Levels

- Shock the hot tub with {Brand Name}, a non-chlorine shock. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.
- Check water balance. pH and Total Alkalinity need to be in the proper ranges for the {Brand} System to work correctly.
- Check {53735-14 Brand Name} and replace if empty—see instructions under Step 3: Put the System to Work.
- If {53735-14 Brand Name} is not empty, turn dial setting up one number while maintaining water balance. If needed turn dial up again.
- Check your calendar. The entire {Brand} {In-Line} System, including a FROG Minerals, needs to be replaced every four months. Without the minerals, {53735-14 Brand Name} will not be enough to sanitize the hot tub.

{53735-14 Brand Name} 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 one number while maintaining water balance. If needed turn the dial down again.

High Chlorine Levels

- This is highly unlikely with {Brand} System because {53735-14 Brand Name} 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 {53735-14 Brand Name} reserve, which will shift to free chlorine as needed. Please always use the {Brand} Test Strips that were included with your System.

Learn more at frogproducts.com or call 800.222.0169

Register your {Brand} System at frogproducts.com

Ver la versión en español de este manual en frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Product Description 9 and Directions for Use for Hot Tub Filter Well Systems used with 53735-14 Brand Name]

Product Description: A complete two-part system consisting of FROG Minerals disinfectant and {53735-14 Brand Name} custom {fit} {designed} for {Brand} {hot tubs} {spas} up to {400} {450} {500} {600} gallons {with} {featuring} {Brand} {Filter} {Filtration} System}. This system of sanitizing minerals and up to 75% less chlorine* provides Fresh Mineral Water[∞] benefits of cleaner, clearer and softer water that's easier to take care of. The water feels soft and doesn't fade swimsuits, damage equipment or create smelly odors.

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

Directions for Use:

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

For use in hot tubs up to {400} {450} {500} {600} gallons. Use FROG Minerals with the {53735-14 Brand Name} in the {Brand} Sanitizing System {for Brand Spas}. Ensure all hot tub equipment is working properly. Operate the pump and filter as recommended by your hot tub manufacturer. Clean filter following manufacturer's directions. May be used with a previously filled hot tub unless it was sanitized with bromine or biguanides {or the cyanuric acid level is higher than 80 ppm}. Then drain and fill the hot tub with fresh water before using this product.

Read entire operating instructions for complete directions for use.

[Operational Instructions for Product Description 9 Hot Tub Filter Well Systems used with 53735-14 Brand Name]

[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

{Brand} Sanitizing System Operating Instructions {for Brand Spas}

{Brand} {and Brand} {is a} {are} hot tub sanitizing system{s} custom designed for {Brand Spas} {with} {featuring} {Brand Filter} {Brand Filtration} {System} that takes the guess-work out of water care, so you always feel at ease while enjoying your hot tub.

The {Brand} System has two {types of} replaceable cartridges {to fit their different filtration systems}. {Brand Cartridges (triangle) / Brand Cartridges (rounded)}

- {Insert Color} = FROG Minerals
- {Insert Color} = {53735-14 Brand Name} {xx g} [Note to reviewer: xx denotes product weight in grams]

The combination provides the Fresh Mineral Water[∞] benefits of cleaner, clearer and softer water that's easier to take care of.

Read entire operating instructions for complete directions for use.

Water Balance Guidelines

pH: 7.2-7.6 {(Max: 7.8)}
Total Alkalinity: 80-{100} {120} ppm
{Calcium} {Total} Hardness: 150-250 ppm
Total Dissolved Solids: <1500
Cyanuric Acid: 0-50 ppm {(Max: 80)}

Step One: Prepare the Hot Tub

1. {Fill hot tub with fresh water.} Have your dealer test your water before filling hot tub. If using source water that is high in calcium, iron or other metals, {see} your dealer {may recommend} {before filling the tub}. {It may require} the use of a metal control product. If previously using bromine and switching to {53735-14 Brand Name}, you must drain and refill your hot tub before using this product. If previously using dichlor you may convert to {53735-14 Brand Name} without having to drain the hot tub as long as your cyanuric acid level is below 80 ppm.
2. Clean or replace filter cartridges when dirty (*Follow manufacturer's instructions*).
3. Balance water following steps a through 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 {2} {6} hours before testing again and adding any additional balancing chemicals.
 - a. Take a water sample from the hot tub and dip a {Brand} Test Strip into it.
 - b. Look at the Total Alkalinity reading first. {Use {Brand Name}} {Adjustments should be made} to bring the Total Alkalinity in the range of 80 – {100} {120} ppm prior to making any adjustments to pH even if it throws pH off further. {Since pH tends to rise in hot tubs, maintaining a Total Alkalinity closer to the low end of 80 will make managing the hot tub easier.} {If your pH tends to fall, then maintain Total Alkalinity closer to {100} {120} ppm.}
 - c. After the Total Alkalinity is in range, test for pH. It should be between 7.2 and {7.6} {7.8}. If higher, add {Brand Name} {a pH down adjuster} or if lower, add {Brand Name} {a pH up adjuster}. {Again, due to rising pH in hot tubs, try to maintain as close to the low end of 7.2 as possible.}
 - d. {Lastly} test for Total Hardness {again. If you were able to use fill water low in hardness, you may now have to add {Brand Name} {Hardness Increaser} {to maintain} {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 {Brand Name} {Calcium Increaser}.}

If balancing takes longer than 2 days, shock the water {with {53735-12 Brand Name} {53735-13 Brand Name}} and maintain a chlorine level while continuing balancing.

4. **Very Important!** After balancing and before using cartridges, {if you haven't already added a shock during balancing,} establish an initial residual of 0.5-1.0 ppm free chlorine with {53735-12 Brand Name} {53735-13 Brand Name} start-up shock, included in this package, that quickly dissolves with an effervescent fizzing action – one packet per 600 gallons.

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

[Note to Reviewer: the hot tub gallon range in the setting chart will be between 200 and 600 gallons.]

{Step Two: Set{ting} the Cartridges}

- Remove the {53735-14 Brand Name} from its bag before proceeding.
- Set the {insert color} FROG Minerals to {#} {the highest setting} using the dial on the bottom of the cartridge. No further adjustments are necessary for the life of the cartridge.
- Set the {insert color} {53735-14 Brand Name} to the setting that matches your hot tub {model number} {or} {size in gallons} {and the type of cartridge being used}. If needed, you may increase or decrease the dial setting.
- Once set, the {53735-14 Brand Name} will maintain a low 0.5 to 1.0 ppm chlorine level as long as the pH stays within 7.2 and {7.6} {7.8} so typically there is little need to adjust the cartridge setting.

{53735-14 Brand Name} Setting Chart		
{For {Classic} {Simplicity} {Cartridges} {xx Shaped} {Cartridge}}		
{Brand} Models	{Gallons}	Setting #
a, b, c	{x-x}	#
d, e, f	{x-x}	#
g, h, i	{x-x}	#
j, k, l	{x-x}	#
m, n, o	{x-x}	#
p, q, r	{x-x}	#
s, t, u	{x-x}	#

Step Three: Put the System to Work

[OPTION FOR BRAND A SPAS SERIES X] {For {Brand} {#, # and #} Series} {Between filter cartridges}

- Remove filter snap cap. Hold weir door/filter plate out into the hot tub slightly or remove from the hot tub.
- If cartridge {holder} {carrier} {caddy} is already installed between the filter cartridges, remove by pulling up on the handle.
- Snap the FROG Minerals into one opening of the cartridge {holder} {carrier} {caddy}. With the {Brand} logo facing the {holder} {carrier} {caddy}, put the dial end of the cartridge into the {holder} {carrier} {caddy} first by connecting the tab on the {holder} {carrier} {caddy} with the indent in the cartridge. Then push the top part of the cartridge in until it snaps into place.
- Follow the same procedure for the {53735-14 Brand Name} into the other opening.
- With the {insert color} {53735-14 Brand Name} facing the inside of the hot tub, insert cartridge {holder} {carrier} {caddy} between the filter cartridges under the weir door/filter plate pushing down until it stays in place.
- Replace filter snap cap.

[Callouts for this section] Dial end of Cartridge, {Holder} {Carrier} {Caddy}, Detail of Cartridge {Holder} {Carrier} {Caddy} Tab, Cartridge Top

[OPTION FOR BRAND A SPAS SERIES XX] {For {Brand} {#, # and #} Series} {{with} {using} {Brand} Filter {Holder} {Housing} {System}} {Using the {Brand} {Filter} {Filtration} System}

- {Turn off main power to the hot tub and} remove the JetPak {covering the {Brand} Filter {Holder} {Housing} {System}} {that is usually} {to the right of the main control panel}.
- {Remove {Brand} Filter {Holder} {System} by taking hold of the handle, {pushing it into the hot tub} {pulling it away from the side of the hot tub} and lift out.}
- {Remove cap from {FROG Minerals and} {53735-14 Brand Name} by squeezing the bottom and turning.}
- Insert FROG Minerals and {53735-14 Brand Name} into the two openings {on the outside of the {Brand} {Filter} {Filtration} {Holder} {System}} {provided in the {Brand} {Filter} {Filtration} {Holder} {Housing} {System}} {below the filter cartridge}. Push cartridges in until they {are latched} {lock into position} {snap into place}.
 - {If using the {Brand Cartridges} with the {Brand} {Holder} {Housing}, ask your dealer for an adapter clip that will allow the triangle shaped cartridges to work.}
- To remove cartridges, {push them in {and lift up to release from lock} {until they are free of the latches}, then slide them out} {pull up {on one end} {at the top} of cartridge and lift out}.
- Replace {{Brand} Filter {Holder} {System} and} the JetPak {over it. Turn on main power}.
- {For swim spas with 2 {Brand} Filters, insert x FROG Minerals and x {53735-14 Brand Name} into the openings {in} {on} the {outside of the 2 {Brand} Filter {Holders} {Systems}} {below each filter cartridge}. {Push cartridges in until they are latched.}}

[Callouts for this section] {Brand} Filter {Holder} {Housing}, Two openings for cartridges, Cartridges installed, Latches, Pull Up, {Brand Systems}

[OPTION FOR BRAND B SPAS] {For use with {Brand} round filters cartridges for model{s} x{, x and x}

- Remove the filter cover.
- If the {Brand} {holder} {carrier} {caddy} is already installed, remove {holder} {carrier} {caddy} by pulling up and away from filter cartridge using the handle at the top of the {holder} {carrier} {caddy}.
- Open the arms of the {holder} {carrier} {caddy} until they snap into position. The handle with the {Brand} logo is the top of the {holder} {carrier} {caddy}.
- Inserting the FROG Minerals into the {holder} {carrier} {caddy}: Place the bottom of the rounded edge of the cartridge into the front of the lower opening of the {holder} {carrier} {caddy} and push the cartridge back until it locks into place.
- Follow the same procedure with the {53735-14 Brand Name} in the upper opening. NOTE: To remove cartridges, tilt away from the {holder} {carrier} {caddy} by pulling at the center top of the cartridge rather than the sides.
- Unscrew both hot tub filter cartridges to find the one that does not have a grid underneath it. Once determined, screw both filter cartridges back in place.
- Installing the {Brand} {holder} {carrier} {caddy}: With the {Brand} cartridges facing the inside of the hot tub and the handle of the {holder} {carrier} {caddy} at the top, slide the {holder} {carrier} {caddy} down over the filter cartridge that does NOT have the grid underneath it until it covers the entire length of the filter cartridge. If necessary, spread the arms on the {holder} {carrier} {caddy} to get them around the filter cartridge.
 - NOTE: On some {Brand} Spas, the filter cartridge over the grid is a 2-part cartridge system with a plastic base. Always install the {Brand} cartridge {holder} {carrier} {caddy} on the 1-piece filter cartridge.
- In order to re-install the filter cover, you must first rotate the {Brand} {holder} {carrier} {caddy} by pulling the top part out about ½" away from the filter cartridge and turning the {holder} {carrier} {caddy} until it touches the other filter cartridge.
- Re-install the filter cover.

[OPTION FOR BRAND B SPAS SERIES XX] {For use with {Brand} {built-in} filtration system for model{s} x{x and x}}

- Remove the filter cover.
- {If the {Brand} holder is already installed, remove it by pulling up on the handle {until the cartridge openings are {above the water} {accessible}} {and sliding it out of the {groove} {slot}}.}
- Insert the FROG Minerals into the {lower} {upper} opening of the {Brand} holder by placing the rounded edge of the cartridge into the opening first and push the cartridge back until it locks into place.
- Follow the same procedure with the {53735-14 Brand Name} in the {upper} {lower} opening. {NOTE: To remove cartridges, pull them from the center top of the cartridge rather than the sides.}
- {Reinstall} {Lower} the {Brand} holder into the spa {by aligning the tabs on the holder with the grooves on the {filter well assembly} {holder bracket}}.
- Reinstall the filter cover.

[OPTION FOR BRAND B SPAS FLOATER] Simply follow these easy steps:

- Insert the {two cartridges} {{FROG Minerals} and {53735-14 Brand Name}} into the {holder} {carrier} {caddy} one at a time. Put bottom of cartridge into {holder} {carrier} {caddy} bracket with setting dial facing out. Then push cartridge in place.
- Place into the hot tub to float.
- If you like, remove {Brand} System from the hot tub while soaking. Lift out {Brand} System and let drain into the hot tub. Place on any surface not susceptible to chlorine bleaching. Remember to return it to the hot tub afterwards.

[OPTION FOR BRAND C SPAS]

- Remove the filter lid.
- {Attach the adaptor to the back of the {holder} {carrier} {caddy} by inserting the tabs on the adaptor into the large opening in the {holder} {carrier} {caddy} and rotating clockwise until it clicks in place.}
- Installing the {Brand} cartridge {holder} {carrier} {caddy}: With the filter cartridge in place, slide the {Brand} {holder} {carrier} {caddy} down over the pipe where the nut is that holds the filter cartridge on.
- Make sure the openings for the {Brand} cartridges are facing the filter area and the fin on the {Brand} {holder} {carrier} {caddy} goes between two pleats on the filter cartridge. Push the {holder} {carrier} {caddy} down using the top handle until it snaps in place.
- Inserting the FROG Minerals into the {holder} {carrier} {caddy}: Place the bottom of the rounded edge of the cartridge into the front of the {holder} {carrier} {caddy} opening closest to the outside of the hot tub and push the cartridge back until it locks into place.
- Follow the same procedure to insert the {53735-14 Brand Name} in the opening closest to the inside of the hot tub. NOTE: To remove cartridges, tilt away from the {holder} {carrier} {caddy} by pulling at the center top of the cartridge rather than the sides.
- Make sure the cartridges are completely under water. If not, add water to the hot tub until the cartridges are covered.
- Re-install the filter lid.

[Callouts for this section] Nut, Pipe, Wall of filter well, Fin, Insert, Remove, Back of holder, Adaptor tab, attach and rotate clockwise, front of holder with adapter in place

[OPTION D]

- Remove the filter {lid} {cover}.

- Insert {Brand} {holder} {carrier} {caddy} in the filter well area per the diagram.
- Snap FROG Minerals into one opening and {53735-14 Brand Name} into the other opening.
- Re-install the filter {lid} {cover}.

Replacing Cartridges

- Replace {insert color} FROG Minerals every four months or when draining and refilling the hot tub.
 - Discard it in the trash even though you will hear the spent media left inside
 - Don't attempt to reuse: The minerals are spent after 4 months
- Replace {insert color} {53735-14 Brand Name} when empty based on the {Brand} Test Strip showing a lighter color than the out indicator on the {test strip} bottle.
 - The life of the cartridge varies depending on hot tub size and number of users.
 - {53735-14 Brand Name} will last {about} {up to} {2 to 3} {2 to 4} {3 to 4} {4} {weeks} {1 month} {for an average 400 gallon hot tub}. {For {Brand Spas} the life of the cartridge could be 5 to 6 weeks on Series x, x and x while lasting the normal 4 weeks on Series x, x and x.}
 - Drain water from cartridge to ensure it is empty.
 - Discard in trash or offer for recycling if available.

Step Four: Routine Hot Tub Care

- Drain and refill hot tub as directed by your hot tub manufacturer {or every four months when FROG Minerals need to be replaced}. {Whenever you drain and refill, make sure to replace your {Brand} Minerals.}
- Run filtration system as recommended by your hot tub manufacturer to maintain proper water flow through the system.
- Regularly test water with {Brand} Test Strips and follow directions in Step One for maintaining pH, Total Alkalinity and {Calcium} {Total} Hardness.
- 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.
- {53735-14 Brand Name} will maintain a 0.5 – 1.0 ppm free chlorine level as long as the water is balanced.

NOTE: Free chlorine levels are reduced up to 75%* when using {Brand Name} Minerals.

{NOTE: Why {Brand} Test Strips? The {53735-14 Brand Name} forms a chlorine reserve that will be inaccurately measured as total chlorine on other test strips. Unlike conventional chlorine, the {53735-14 Brand Name} reserve readily shifts to free chlorine as needed, maintaining hot tub health with a low level of free chlorine.

- Shock the hot tub with {Brand Name}, a non-chlorine shock for easy single-dose shocking when you replace the {53735-14 Brand Name} or once a month. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.

{NOTE: If shocking every other week, you may turn the {53735-14 Brand Name} dial down one setting to help extend the life of {53735-14 Brand Name} {the sanitizer in the water}}

- Replace your {53735-14 Brand Name} {when empty} and {replace the} complete {Brand} System (that comes with a FROG Minerals) {every 4 months} as directed under Step 3: Put the System to Work.
- {Parts of the filter {including the filter cap} may discolor during use. This is normal. Follow manufacturer guidelines for filter replacement.} {It is normal for {parts of} the filter {cap} to discolor over time.} {Filter {cap} discoloration may occur.}

Troubleshooting

Cloudy Water or Low Chlorine Levels

- Shock the hot tub with {Brand Name}, {or} {a} {non-chlorine shock}. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.
- Check water balance. pH and Total Alkalinity need to be in the proper ranges for the {Brand} System to work correctly. {Since pH tends to rise in hot tubs, maintain Total Alkalinity and pH closer to the lower end of the ideal range on the {Brand} Test Strip.}
- Check {53735-14 Brand Name} and replace if empty—see instructions under Step 3: Put the System to Work.
- If {53735-14 Brand Name} is not empty, turn dial setting up one number while maintaining water balance. If needed turn dial up again.
- Check your calendar. The entire {Brand} System including a FROG Minerals needs to be replaced every four months. Without the minerals, {53735-14 Brand Name} will not be enough to sanitize the hot tub.

{53735-14 Brand Name} 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 one number while maintaining water balance. If needed turn dial down again.

High Chlorine Levels

- This is highly unlikely with {Brand} System because {53735-14 Brand Name} 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 {53735-14 Brand Name} reserve, which will shift to free chlorine as needed. Please always use the {Brand} Test Strips that were included with your System.

{Brand Spas} and {Brand System} are registered trademarks of {Brand}

Learn more at frogproducts.com or call 800.222.0169

Register your {Brand} Sanitizing System at frogproducts.com

Ver la versión en español de este manual en frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Product Description 10 and Directions for Use for Swim Spa System used with 53735-14 Brand Name]

Product Description: A complete two-part system for swim spas up to {2500} {3000} gallons consisting of FROG Minerals disinfectant and {53735-14 Brand Name}. This system of sanitizing minerals and up to 75% less chlorine* provides Fresh Mineral Water[∞] benefits of cleaner, clearer and softer water that's easier to take care of. The water feels soft and doesn't fade swimsuits, damage equipment or create smelly odors.

Replace the FROG Minerals after 4 months or when draining and refilling swim spa with fresh water.

Directions for Use:

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

For use in swim spas up to {2500} {3000} gallons. Use with the {53735-14 Brand Name}. Ensure all swim spa equipment is working properly. Operate the pump and filter as recommended by your swim spa manufacturer. Clean filter following manufacturer's directions. May be used with a previously filled swim spa unless it was sanitized with bromine or biguanides or the cyanuric acid level is above 80 ppm. If any of those conditions apply, drain and refill the swim spa with fresh water before using this product.

Read entire operating instructions for complete directions for use.

[Operational Instructions for Product Description 10 Swim Spa System used with 53735-14 Brand Name]

[All text is optional] [Representative icons/graphic images may be represented next to each step of the instructions]

Sanitizing System for Swim Spas Operating Instructions

This is not a toy. For sanitizing swim spas only! Keep out of reach of children when using the swim spa.

{Brand} is the swim spa sanitizing system that takes the guess-work out of water care, so you always feel at ease while enjoying your swim spa.

Directions for Use: For use in {the swimming area of} swim spas up to {2500} {3000} gallons (not including an {add on} {attached} hot tub). Use with the {53735-14 Brand Name}. Ensure all swim spa equipment is working properly. Operate the pump and filter as recommended by your swim spa manufacturer. Clean filter following manufacturer's directions. May be used with a previously filled swim spa unless it was sanitized with bromine or biguanides or the cyanuric acid level is above 80 ppm. If any of those conditions apply, drain and refill the swim spa with fresh water before using this product.

Read entire operating instructions for complete directions for use

Step One: Prepare the Swim Spa

1. Have your dealer test your water before filling the swim spa. If using source water that is high in total hardness, iron or other metals, your dealer may recommend the use of a metal control product. If previously using bromine and switching to {Brand System}, you must drain and refill your swim spa before using this product. If previously using dichlor you may convert to {Brand System} without having to drain the swim spa as long as the cyanuric acid level is below 80 ppm.
2. Clean or replace filter cartridges when dirty (*Follow manufacturer's instructions*).
3. Balance water following steps a through 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 {2} {6} hours before testing again and adding any additional balancing chemicals.
 - a. Take a water sample from the swim spa and dip a {Brand} Test Strip into it.
 - b. Look at the Total Alkalinity reading first. {Use {Brand Name}} {Adjustments should be made} to bring the Total Alkalinity in the range of 80 – {100} {120} ppm prior to making any adjustments to pH even if it throws pH off further. {Since pH tends to rise in swim spas, maintaining a Total Alkalinity closer to the low end of 80 will make managing the swim spa easier.} {If your pH tends to fall, then maintain Total Alkalinity closer to {100} {120} ppm.}
 - c. After Total Alkalinity is in range, test for pH. It should be between 7.2 and {7.6} {7.8}. If higher, add {Brand Name} {a pH down adjuster} or if lower, add {Brand Name} {a pH up adjuster}. {Again, due to rising pH in swim spas, try to maintain as close to the low end of 7.2 as possible.}
 - d. {Lastly} test for Total Hardness again. If you were able to use fill water low in hardness, you may now have to add {Brand Name} {Hardness Increaser} to maintain between 150 and 250 ppm.

Water Balance Guidelines

pH:	7.2 – 7.6 {(Max: 7.8)}
Total Alkalinity:	80 – {100} {120} ppm
Total Hardness:	150-250 ppm
Total Dissolved Solids:	<1500
Cyanuric Acid:	0-50 ppm {(Max: 80)}

If balancing takes longer than 2 days, shock the water {with {53735-12 Brand Name} {53735-13 Brand Name}} and maintain a chlorine level while continuing balancing.

4. **Very Important!** After balancing and before using cartridges, {if you haven't already added a shock during balancing,} establish an initial residual of 0.5-1.0 ppm free chlorine with {{53735-12 Brand Name} {53735-13 Brand Name} start-up shock {included in this package} {that quickly dissolves with an effervescent fizzing action} – one packet per X gallons} {5 Tablespoons of dichlor}. {Always add shock while running the jets and then wait 2 hours to test the water again.}
5. Heat water to the manufacturer's recommended temperature before using this product. {Always maintain a temperature of at least X degrees but no higher than the swim spa manufacturer's recommendation.}

Step Two: Put the System To Work

The {Brand} {Floating} System has two replaceable {components} {cartridges} {sanitizers}.

- {insert color} = FROG Minerals
- {insert color} = {53735-14 Brand Name}

The combination provides the Fresh Mineral Water[∞] benefits of cleaner, clearer and softer water that's easier to take care of.

[OPTION 1 – VERSION A AND B]

Simply follow these easy steps:

1. Remove {outer packaging} {cap} from {the FROG Minerals and} the {53735-14 Brand Name} {by squeezing the bottom and turning}. {NOTE: Small mineral particles may have dislodged from the FROG Minerals in shipping. Simply discard particles in trash.}
2. **[VERSION A]** {Place {#} FROG Minerals {pouch} {pod} {sachet} {bag} into one cartridge and {#} {53735-14 Brand Name} into the other cartridge.} {Connect cartridges together} {Slide cartridges into {carrier} {housing} {holder} {station}}.

[VERSION B] {Remove stickers from both ends of {53735-14 Brand Name}.} Align the {53735-14 Brand Name} with tab guides on the FROG Minerals. Push together until you hear the cartridge click into place. [CALLOUTS:] Tabs, Tab Guides {Stickers on cartridge}
3. Adjust to setting number based on swim spa gallon size (see setting chart). If a dual zone swim spa, set according to the gallons of the swimming area only.

{53735-14 Brand Name} Setting Chart		
Gallons	Setting #	{Setting # if shocking twice a month}
X – X	#	#
X – X	#	#
X – X	#	#
X – X	#	#
X – X	#	#
X – X	#	#

[Note to Reviewer: The swim spa gallon range will be between 1000 and 3000 gallons]

4. Attach to side {railing} of swim spa {with the tether provided} and let it float in the swim spa.
5. If you like, remove {Brand} System from the swim spa while soaking or exercising. Lift out {Brand} System and let drain into the swim spa. Place on any surface not susceptible to chlorine bleaching. Remember to return it to the swim spa afterwards.

Replacing Cartridges

- A. When the {product flips over} {{Brand} Test Strips indicate} {out indicator signal appears on the product} the {53735-14 Brand Name} is empty; remove the empty {53735-14 Brand Name} {pouch} {pod} {sachet} {bag} {cartridge} and replace with a new one.
 - {53735-14 Brand Name} will last {about} {up to} {2 to 3} {2 to 4} {3 to 4} {4} weeks for an average 2000 gallon swim spa depending on swim spa usage.
 - This system naturally {lists} {sits at a tilt} in the water. To check if {53735-14 Brand Name} is empty, lift up and drain all the water from the system {and set back in the swim spa to see if it flips over completely}. {You should be able to tell by looking, if there is still {53735-14 Brand Name} left in the cartridge.} {Disconnect {53735-14 Brand Name} and shake to see if you can hear material inside}.
 - If only a small amount is left, {add} {attach} a new {53735-14 Brand Name} {pouch} {pod} {sachet} {bag} {cartridge} {and hook the old cartridge on the tether until it is completely empty}.
 - When empty, discard in trash or offer for recycling if available.
- B. After 4 months or when draining and refilling the swim spa, the {color} FROG Minerals must be replaced even if you hear the spent minerals inside.

[OPTION 2]

Simply follow these easy steps:

1. Remove outer packaging from the FROG Minerals and the {53735-14 Brand Name}.
2. Place 1 FROG Minerals {pouch} {pod} {sachet} {bag} in the {carrier} {housing} {holder} {station} along with a specific number of {53735-14 Brand} {pouches} {pods} {sachets} {bags} based on gallon size per the chart below:

{53735-14 Brand Name} Chart		
Gallons	{# of Pouches}	{Setting #}
x – x	#	#
x – x	#	#
x – x	#	#
x – x	#	#
x-x	#	#
x-x	#	#

[Note to Reviewer: The swim spa gallon range will be between 1000 and 3000 gallons]

3. Attach {carrier} {housing} {holder} {station} to side of swim spa with {suction cups} {over the side weight} {bracket} {straps}.
4. {Adjust to setting number based on swim spa gallon size (see setting chart).}

Replacing Cartridges

- A. When the {{Brand} Test Strips indicate} {out indicator signal appears on the product} that the {53735-14 Brand Name} is empty, remove the empty {53735-14 Brand Name} {pouches} {pods} {sachets} {bags} and replace with new ones.

- {53735-14 Brand Name} will last {about} {up to} {2 to 3} {2 to 4} {3 to 4} {4} weeks for an average 2000 gallon swim spa depending on swim spa usage.
- When empty, discard pouch in trash.

B. After 4 months or when draining and refilling the swim spa, the FROG Minerals must be replaced even if you hear the spent minerals inside the pouch.

Step Three: Routine Swim Spa Care

- Drain and refill swim spa as directed by your swim spa manufacturer. Whenever you drain and refill, make sure to replace your {Brand} Minerals.
- Run filtration system as recommended by your swim spa manufacturer {or at least 3 hours per day}.
- Regularly test water with {Brand} Test Strips and follow directions in Step 1: Prepare the Swim Spa for maintaining pH, Total Alkalinity and Total Hardness.

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

- {53735-14 Brand Name} will maintain a 0.5 to 1.0 ppm free chlorine level as long as the water is balanced.

NOTE: Free chlorine levels are reduced up to 75%* when using FROG Minerals with {53735-14 Brand Name}

{NOTE: Why {Brand} Test Strips? The {53735-14 Brand Name} forms a chlorine reserve that will be inaccurately measured as total chlorine on other test strips. Unlike conventional chlorine, the {53735-14 Brand Name} reserve readily shifts to free chlorine as needed, maintaining swim spa health with a low level of chlorine.}

- Shock the swim spa with {{Brand Name} {for easy single-dose shocking} or} {any non-chlorine shock} when you replace the {53735-14 Brand Name}, or once a month. {To get another week from {53735-14 Brand Name}, shock when the product is almost flipped over.} Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.

{NOTE: If shocking every other week, you may turn the {53735-14 Brand Name} dial down one setting to help extend the life of the {53735-14 Brand Name} {sanitizer in the water}.}

- Replace the {53735-14 Brand Name} when the {pouches} {pods} {sachets} {bags} {cartridges} {are empty} {system flips over} and {replace} the complete {Brand} System that includes a FROG Minerals {every 4 months} as directed under Step 2: Put the System to Work.

Troubleshooting

Cloudy Water {or Low Chlorine Levels}

- Shock the swim spa with {Brand Name} {or} {a} {non-chlorine shock}. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.
- Check water balance. pH and Total Alkalinity need to be in the proper ranges for the {Brand} System to work correctly.
- Check {53735-14 Brand Name} and replace if empty—see instructions under Step 2: Put the System to Work
- If {53735-14 Brand Name} is not empty, adjust setting up 1 number while maintaining water balance. If needed adjust setting up again.

- Check your calendar. The entire {Brand System}, including a FROG Minerals, needs to be replaced every four months. Without the minerals, {53735-14 Brand} will not be enough to sanitize the swim spa.

{53735-14 Brand Name} Life

- If swim spa is larger than 2000 gallons with significant bather load, you may require a higher setting which will shorten the cartridge life.
- If you think the cartridge setting is too high, you can adjust the setting down 1 number while maintaining water balance. If needed adjust the setting down again.
- {If {Brand} System continually is {sucked} {pulled} {drawn} into the skimmer or filter well, tether the product to the side {railing} away from the jets {using the cord provided.}}
- Remove {Brand} System while using the swim spa with the jets running.

High Chlorine Levels

- This is highly unlikely with {Brand System} because {53735-14 Brand Name} 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 {53735-14 Brand Name} reserve, which will shift to free chlorine as needed. Please always use the {Brand} Test Strips that were included with your System.

Learn more at frogproducts.com or call 800.222.0169

Register your [Brand] System at frogproducts.com

Ver la versión en español de este manual en frogproducts.com

{Made} {Manufactured} {Assembled} in {the} USA

Patents: kingtechnology.com/IP

[Optional Language for *Product Descriptions 7-10* used with 53735-14 Brand Name]

[All text is optional]

{# Prefilled Cartridges} {# FROG Minerals – # {53735-14 Brand Name}} Plus {Brand} Test Strips
{and} {&} {53735-12 Brand Name} Shock
Proprietary blend of minerals with {53735-14 Brand Name} Technology {for sanitizing hot tubs}

Adjusts up to {600} {2500} {3000} gallons
Custom {Fit} {Designed} {Bundle} for {Brand} Spas [may be multiple brands] {with {Brand} Filter}
{For use in} {the} {Brand Name} {Floating} {In-Line} Sanitizing System
{Replacement Cartridges} {Cartridge Kit} for {Brand} {Floating} [or] {In-Line} {Sanitizing} System{s}

Fresh Mineral Water[∞] with {53735-14 Brand Name} Technology
Up to 75%* less chlorine with no frustrating yo-yo chlorine levels [ICON: 75% in a circle]
Self-regulate{s}{ing} for continuous crystal clear water [ICON: Level scale with one water drop on left side]

Easy on {hot tub} {swim spa} surfaces with less odors [ICON: Water drop on lines representing water in circle]
Single color match for easy reading – exclusively with {Brand} Test Strips [ICON: Target]
{Only} Shock {only} once a month [ICON: Calendar]
{53735-14 Brand Name} {Technology} {(color)} {lasts {2} {3}-4 weeks}

The system {will} slowly flip{s} over [ICON: product images in various stages of flipping]
replace when empty
Relax {and} {&} enjoy.
Floats in the hot tub

Flips over when the {53735-14 Brand Name} is empty
Intelligent water care
Step into easy
Yes, it does revolve around you

More wows. Less ughs.
FROG Minerals {(color)} Lasts {up to} 4 Months
Fits {all} [YEAR] & later {Series} {Model} XXX {Brand Spas} excluding models xxx and xxx
Fits Collections XXX

Soak in the Softness
More innovation. Less upkeep
For cleaner, clearer and softer water {that} {reduces} {cuts} {the use of} chlorine {use} by 75%*

Self {shocking} {refreshing} {chlorinating} water care system
Kills bacteria with sanitizing minerals and {chlorine} {53735-14 Brand Name}⁺ {Technology}
Put your mind and body at ease

The Breakthrough Science {Technology} of {53735-14 Brand Name}

- Maintains a consistent 0.5 ppm {sanitizer} {disinfectant} {chlorine} level
- Uniquely time-released with a chlorine reserve ready when needed
- Easier to test with Test Strips and one-color match
- Oxidizes contaminants so far less shocking is required

FROG Minerals and {53735-14 Brand Name} completely sanitize any hot tub with no need for ozone, UV or other devices.

[All text is optional]

Compatible with {ozone} {UV} if desired

Be at ease.

Be crystal clear.

Cleaner, Clearer, Softer

Relaxation: Dial in.

Chore be gone

Say hello to simple

Easy does it

Ready. Set. Relax.

Goodbye constant monitoring. Hello to being at ease.

Pure relaxation is within reach.

Say hello to easy-water-care.

Say hello to the “aahs.”

Welcome to easy

The only thing to measure: the number of “aahs.”

Up to 4 months worth of “ahhhs”

{Everything you need} {Complete water care} for up to 4 months

{Contains} Up to a 4-month supply included {inside}

{Plus} {Also} {Package} {Bundle} {Kit} {Set} {contains} {includes}

FROG Minerals {(shown left)}

{53735-14 Brand Name}

{# {53735-12 Brand Name} {53735-13 Brand Name}}

{# {Brand Name} Test Strips}

{# {Brand Name} Non-Chlorine Shock {packets} {pouches}}

Enjoy Spa Ease with {Brand}

Spa Ease: what you experience with {Brand} products

Create Spa Ease in your hot tub

Sanitizing made easy – that’s Spa Ease

Spa Ease – as easy as 1, 2, Ahh

Feel the difference

{Patented} {Mineral} {Hot Tub} {Swim Spa} {Sanitizer} {Disinfectant}

Rediscover the simple joy of owning a hot tub

Floating {System} {Holder} {Model}

{Pack} {contains} x {53735-14 Brand Name} and x FROG Minerals.

{Dichlor is hard} {End the chore of Dichlor} {{Brand} Mineral System does everything Dichlor does but easier} with:

- {No} yo-yo chlorine levels
- {No} daily chlorine dosing
- {No} touching or spilling chlorine
- {No} wondering how much to add

Floating Model, Cartridge {holder} {carrier} {caddy} {station} sold separately

[All text is optional]

Cloudy water solved – 9 out of 10 recommend {Brand}
Unlock the secret to clear water

Subscribe for easy product replacements every 4 months
The {simple and smart} {DIY water} sanitizing solution for your hot tub

[INSERT CARD]

STOP – Switching to {Brand}? [ICON: Stop sign]

Here are helpful tips

If previously using bromine, you must drain and refill hot tub before using {Brand}

If previously using dichlor, you may convert to {Brand} without draining the hot tub as long as the cyanuric acid level is below 50 ppm. See your dealer for details.

Always use the {Brand} Test Strips that were included with your {Brand} System

Download the free {Brand} Water Care App [ICON: QR Code]

Easy water testing advice and reminders at your fingertips [ICON: Phone image with Water Testing text on it]

To learn more, visit frogproducts.com and visit the {Brand} Test Strips page

Swim Smarter. Soak Smarter. Be Smarter

Designed for Work Outs, and Sit Ins

Keep Your Work Outs out of water care

A lifestyle of easy water care

Now with x% more {53735-14 Brand Name}

{53735-14 Brand Name} {made of {100%} recyclable plastic} {and is} {fully recyclable when empty}

More {53735-14 Brand Name}, More Relaxing & Now Recyclable

Smart, Easy & Recyclable

Extended {53735-14 Brand Name} life for larger hot tubs

Now lasts up to {4 weeks} {1 month} on larger hot tubs 450 to 600 gallons

Longer cartridge life means less work and more convenience

For easy shocking that is effective and fast, {always} use {Brand Name}

To help maintain Fresh Mineral Water[∞], {always} shock with {Brand Name}

Once a month or when replacing your {53735-14 Brand name} use the fast and convenient {Brand Name} – one packet for up to {600} {3000} gallons

{53735-14 Brand Name} lasts {up to} 1 month

Shock the {hot tub} {swim spa} {with Brand Name}”

Sold Separately

Not included

For {Brand Name} with the {Brand Name} {Filter} {Filtration} {System} produced [year] or later
{Now} {53735-14 Brand Name} Lasts 3-4 weeks {for an average 400 gallon hot tub} {on larger hot
tubs {400-600 gallons}}

Chlorine extender

Longer cartridge life means less work and more convenience

{{Brand System} with} A larger cartridge for greater satisfaction {on larger hot tubs}

Get a longer life to your {53735-14 Brand Name}

[All text is optional]

The perfect companion to {Brand} {Salt Generator} controlled by the {Brand} {monitoring device}. Minerals allow you to generate less chlorine (up to 50% less*) that improves the look and feel of the water while increasing the life of the salt cell for easier maintenance.

{Brand Name} offers {24/7} {easy to reach} {text} {phone} {email} support to new {hot tub} {swim spa} owners.

Need help with how to balance the water or getting the most from your {Brand System}?

Want tips on shocking, water testing, draining, and refilling?

We're here to help. To learn more call 800-222-0169 or visit {kingtechnology.com}

{frogproducts.com}.

[Additional copy for Water Balance Guide insert for FROG Minerals use with 53735-14 Brand Name]

[All copy is optional]

Water Balance Guide for Hot Tubs {{or} {and} Swim Spas}: How to get your water relaxation ready. Before you {fill and} balance {-have water tested}:

Step 1 – {Test your fill water} 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 {your fill water is} over 250 ppm {in Total Hardness}, don't use that water to fill your hot tub {or swim spa}! {Find a soft water source or use} A {simple} hose filter {from your local dealer can solve your issue} {to soften the water}.

Step 2 – {Test} for metals. {After the hot tub is filled, take a sample of that water to your dealer to check for metals.} If {it} {the water you use} tests high for metals, use a {stain and scale or} metal out product {before balancing}.

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 {water} {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 {Brand Name} {TA Increaser or TA Up}. High TA: add {Brand Name} {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: pH 7.2-{7.6} {7.8}: pH is important for maintaining clean, clear water that doesn't attack surfaces or irritate skin. Low pH: {Brand Name} {add a pH Increaser or pH Up product}. High pH: add {Brand Name} {a pH Decreaser or pH Down product}.

STOP: Proceed to {Water} {Total} Hardness ONLY when pH is between 7.2 and {7.6} {7.8}.

Step 3: {Water} {Total} Hardness 150-250 ppm: Check {Water} {Total} Hardness AGAIN to make sure the calcium level is not too low, so the water does not corrode surfaces. Low {Water} {Total} Hardness: if {Water} {Total} Hardness is under 150 ppm, add {Brand Name} {Calcium} {Hardness} {Increaser}.

2. Add adjustment chemicals in small increments (follow label directions carefully)
3. Wait {2} {6} hours between adjustments so your adjustment chemical has time to work
4. If balancing takes longer than 2 days, add {53735-12 Brand Name} {53735-13 Brand Name} {a chlorine shock} to maintain sanitizer levels.

When Total Alkalinity is 80-120, pH is 7.2-{7.6} {7.8} and {water} {total} hardness is 150-250 ppm, your water is balanced.

Troubleshooting Tips for {Brand} Systems

Many users tell us the {Brand} System is the easiest water care system they have ever used. The key is to maintain water balance and make sure you replace the {53735-14 Brand Name} when empty (approximately every {2 to 3} {2 to 4} {3 to 4} weeks). Here are a few tips should you experience one of these issues:

Cloudy Water / Under Chlorination

1. Shock the hot tub {or swim spa} with {Brand}, a non-chlorine shock. Do not use a dichlor shock due to the buildup of cyanuric acid that will negatively affect {53735-14 Brand Name}'s effectiveness.
2. Check your water balance. If your pH or TA is off, {53735-14 Brand Name} will not be as effective. Most often the free chlorine residual is low when the pH is too high. Add {Brand Name} {pH Down} to bring the pH into the ideal range of 7.2-{7.6} {7.8}. The free chlorine residual will then come back up to 0.5 ppm after the pH adjust has been made.

3. Check to see if your {53735-14 Brand Name} is empty. If using a floating version of {Brand}, in some circumstances, the system may not completely flip over. Pull it out of the hot tub and drain all the water. Then put it back in. If it immediately flips over, it's empty. For any {Brand} System, you can shake {it} {the cartridge} slightly to feel if there is any {53735-14 Brand Name} material left inside. {For swim spas, you should be able to tell by looking if the {53735-14 Brand Name} is empty.}
4. Make sure your FROG Minerals have not been used for more than 4 months. When you hear minerals left inside the blue cartridge, it is because one of the minerals does not completely dissolve. The mineral that does the bacteria fighting however only lasts 4 months so you must replace the FROG Minerals at that time or whenever you drain and refill your hot tub or swim spa. We suggest making a note on your calendar for the replacement date of the minerals and be sure to replace every time you drain and refill your hot tub.

High Combined Chlorine Levels

1. This is normal! With the {Brand} System self-regulating process, there is a chlorine reserve that converts to free chlorine automatically when needed.
2. When testing {53735-14 Brand Name} with {a standard} {other} test strip{s}, you will see the total chlorine is higher than the free chlorine. The total is the {53735-14 Brand Name} reserve that is inactive. When the hot tub needs more free chlorine to kill bacteria, it pulls from the reserve. Therefore, no shocking is required when the total reading is different than the free reading.
3. {Due to the unique properties of {53735-14 Brand Name} that does not look work like standard chlorine,} {To prevent confusion,} always use {Brand} Test Strips. A 30-count bottle comes with every {Brand} System. {To learn more about testing this technology, visit frogproducts.com.}

[Additional Optional Language]

[Optional language for marketing in conjunction with 53735-14 or 53735-16 Brand Name]

[All text is optional]

{Brand System} has no {cyanuric acid} {CYA} that can build-up quickly leaving chlorine ineffective and requiring you drain the water prematurely.

Dichlor adds {cyanuric acid} {CYA} to the hot tub with every dose. {Brand System} does not.

{Cyanuric acid} {CYA} too high? It's time to drain your hot tub. {Brand System} has no {cyanuric acid} {CYA} so you could still be enjoying your hot tub.

{Cyanuric acid} {CYA} protects the chlorine from sunlight's destruction} {from being burned off by the sun}. Since hot tubs are covered, there is no need to protect the water from the sun so there is no need for {Cyanuric acid} {CYA}.

When {cyanuric acid} {CYA} gets too high in a dichlor hot tub, the water is over stabilized. The result is:

- Dichlor becomes less effective, decreasing its ability to kill bacteria-
- The water becomes {hazy} {cloudy} or algae appears
- You have to drain your water and start again.

Did you know when you use dichlor, your {building up {cyanuric acid} {CYA}} {creating a {cyanuric acid} {CYA} bath} {asking for trouble with {cyanuric acid} {CYA} build up}?

The {53735-14 or -16 Brand Name} difference is what we don't put in {it} {53735-14 or -16 Brand Name}

With no {cyanuric acid} {CYA} in {53735-14 or -16 Brand Name}, you can {extend the life of your hot tub water} {{go longer between} {reduce the hassles of constant} draining and refilling}

[Optional Language for all Product Descriptions]

[All text is optional]

A fresh approach to clean, clear water using mineral technology that uniquely offers these 4 advantages

Fresh Mineral Water[∞]

The Alternative Way To Sanitize

A fresh way to make Cleaner, Clearer, Softer water that is Easier to take care of

Sanitizing Minerals:

- Kill bacteria while reducing {chlorine}{bromine} use
- Maintain pH balance for water that shines
- Condition the water for softness
- Come in prefilled {cartridges} {pacs} for no mess, no guess, no stress

{Cleaner because} {it} {FROG Minerals and a low level of chlorine or bromine}

Kills bacteria with sanitizing minerals and {a low level of} {chlorine} {bromine}⁺ [ICON: Text MINERALS in oval above text CHLORINE in another oval with + sign between to the left]

Minerals help keep the pH balanced for Clearer water that shines

Minerals condition the water for a Softer feel

{{Cartridges} {pacs} {chambers} are {Brand is}} prefilled for no mess, no guess, no stress making maintenance Easier.

Download {the} free {Brand} {Water Care} App

Fresh Mineral Water[∞] {easy} – cleaner, clearer {and} softer {and} {easier}.

Fresh approach - {Prefilled cartridges for} no touching, smelling or measuring {chlorine} {bromine}

Silver plus 0.5 ppm chlorine is as effective as 1.0 ppm chlorine alone. {for pools}

Silver plus 1.0 ppm bromine {or chlorine} is as effective as 2.0 ppm of bromine {or chlorine} alone. for hot tubs

Silver ion {minerals} {mineral technology} {kill}{s} {eliminate}{s} {destroy}{s} {inhibit}{s} bacteria{l} growth when used in conjunction with low levels of {chlorine} {bromine} and in accordance with use instructions.

{Brand} {Kills} {Destroys} {Gets rid of} bacteria {with} {silver ion minerals} {mineral ions} {sanitizing} {minerals} {and} {plus} {low levels of} {less} {chlorine} {bromine}⁺. [ICON: Text Minerals in oval over text Chlorine in oval with + sign to the left]

In fact, it's half as much chlorine.

Unconditional Satisfaction Guarantee

You'll LOVE the {Brand} Mineral Floating System or your money back!

Refer a Friend to {Brand} and {get} {earn} a free {x} {FROG Minerals}.

Tap into the App – Watercare guide for {spas} {hot tubs} and pools

- Easy water testing advice {and reminders at your fingertips}
- Water care at your fingertips
- Helpful reminders and more

[All text is optional]

Expert advice, reminders & more
{Simple} water care at your fingertips
Our free app makes it easy

{Brand}... cruise control for your {pool} {hot tub}
Don't get in the {pool} {hot tub} without {Brand}

Discover {a fresher approach to water care} {the fresh alternative to salt} {the difference {of} Fresh Mineral Water[∞]}

The fresh {alternative to standard water care} {way to good clean fun}
{Refreshingly} {Shockingly} {easy} {clean} {clear} {comfortable} {enjoyable}

Silver plus a low level of chlorine = {Brand} Water Care

{Brand} sanitizing minerals
{Made} {Manufactured} {Assembled} in {the} USA
Patents: {frogproducts.com/IP} {kingtechnology.com/IP} {heycoolpool.com/IP}

Made of {100%} recyclable plastic {see emblem on bottom of package}
Now easier to recycle {plastic cartridges} {and} {pacs} {Brand replacements}

All {Brand} empty replacement products are recyclable through {Brand} recycling program. Collect used and empty products and return to a participating dealer. Learn more at frogproducts.com/terracycle

Scan code to view {instruction manual} {, videos and additional product information} {or visit {frogproducts.com} {kingtechnology.com}}

Scan here to learn {more} {about this product's benefits and operation} {how to maximize your success with this product} {what this product can do for your {pool} {hot tub} {swim spa}.

{Remove} {Tear off} {Cut off} {label} {bag} {out packaging} before using product and {retain} {keep} {instructions nearby} {for future reference}.

[Recycling symbols for FROG Minerals Family of Products]

[Note to reviewer: The following are representative recycling images for FROG Minerals that may appear on the product container. The number inside the triangle will be determined by the plastic material used for that product.]



[FROG Minerals Family of Products]

[The following images are representative of current products and may or may not appear on product labeling]

Product Description 1 Products:



Pool FROG®
Model 6100
for pools up to
25,000 gallons



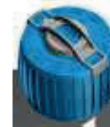
Pool FROG®
Model 5400
for pools up to
40,000 gallons

Product Description 2a Product:



Instant FROG®
for pools up to
25,000 gallons

Product Description 2b Product:



Name Unknown
- for use in
pump basket

Product Description 3 Products:



Flippin' FROG
for pools 2,000-
5,000 gallons



Flippin' FROG XL
for pools 5,000-
10,000 gallons

Product Description 5a Product:



FROG Serene®
floating sanitizer
for hot tubs

Product Description 5b Product:



FROG Serene®
inline system for
hot tubs

Product Description 4 Product:

Still under development,
not pictured

Product Description 6 Product:



FROG Filter Mate®
for hot tubs

Product Description 7 Product:



FROG @ease®
floating sanitizer
for hot tubs

Product Description 8 Product:



FROG @ease®
inline system
for hot tubs

Product Description 9 Products:



FROG @ease®
Brand A Spas



FROG @ease®
Brand A X-Series



FROG @ease®
Brand B Spas



FROG @ease®
Brand B Floater

Product Description 10 Product:

FROG @ease
for Swim Spas



FROG @ease®
Brand C Spas

[Logos for FROG Minerals Family of Products]

[The following images are representative of logos that may or may not appear on product labeling]



[Background images for FROG Minerals Family of Products]

[The following images are representative of background images that may or may not appear on product labeling. Only adults will be shown in images with products.]

Couple in Hot Tub



Person swimming in swim spa



Person under water in pool

