



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

MAR 24 2011

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

King Technology, Inc.  
530 11<sup>th</sup> Avenue South  
Hopkins, MN 55343

Attention: Zuhail Tompkins, Technology Sciences Group, Inc.  
Regulatory Consultant

Subject: Amendment – Addition label claims and Alternate CSF  
EPA Reg. No. 53735-11  
Amendment Applications Dated January 13, 2011 and February 10, 2011

The amendments referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, are acceptable. The Agency approves the following Amendments to the label:

- Page one – Addition of the following alternate brand names, "Pool Frog Value Pack," "Aqua Smarte Value Pack," "Frog Mineral Pac," "Frog Min Pac."
- Page three, addition of the term "{pac}."
- Page four, addition of the following words and/or phrases, "{15,000}, {chlorinator} {feeder}, {shock pac per its label directions}, {Pool Frog Mineral Reservoir}" under the heading Directions for Use with chlorine Bac Pac EPA Reg. No. 53735-2. Addition of the terms "{chlorinator} {feeder}" under the heading Directions for Use with Alternate Source of Chlorine.
- Page six, addition of the phrase "{between 4000 and 9000} {up to 9000}" under the heading Directions for Use.
- Page seven and eight, addition of the phrase "{a start-up spa shock packet}" under the heading Directions for Use.
- Page nine, addition of the words "{pac}, {cartridge} {pac}" under the heading Disposal.
- Page ten, addition of the following:

- “{Using {algaecide pac} {shock pac} {algaecide and shock pacs} to start up the pool.
  1. Remove child proof caps
  2. Turn shock pac over and insert into {cyclor} {chlorinator} {feeder} before using the Pool Frog Mineral reservoir. {Turn shock pac over and insert in the center of the pool Frog Mineral Reservoir.}
  3. Replace cap and run pump until pac is empty.
  4. Pull pac up and allow water to drain through {cyclor} {chlorinator} {feeder}. Recycle or discard in trash.
  5. Wait 24 hours then insert algaecide pac into {cyclor} {chlorinator} {feeder} {the center of the Pool Frog Mineral Reservoir.}
  6. Replace cap, run pump until pac is empty and remove pac. Recycle or discard in trash.}
- On page eleven, addition of the following words and/or phrases:
  - Under the number 1, “{chlorinator} {feeder}” and “{how many gallons it will handle.}”
  - Under the number 2, “{algaecide pac} {shock pac} {algaecide and shock pas}.”
  - Under the number 5, “{Pull up on Bac Pac to {remove} old Reservoir and discard in trash.} {Insert Bac Pac inside new reservoir.} {Push together until parts connect}” and {chlorinator} {feeder}.”
  - Under the number 7, “{Insert FROG BAM into center of reservoir {pushing together until parts connect} and lower into {cylinder} {chlorinator} {feeder}.”
  - Under the number 11, “{chlorinator} {feeder}, {remove} from Reservoir and recycle or.”
- On page twelve, addition of the terms “{chlorinator} {feeder}. The Agency also approves the additions of, “{Insert into center of reservoir.} {Push together until snapped in place}” and “container.”
- On page thirteen, addition of the terms “{an EPA Registered chlorine shock} {a shock pac}”, “{chlorinator} {feeder}”, “{Insert an algaecide pac to complete the start-up process. (See pg x for directions.)}”, and “{page x}.”
- On page fourteen, addition of the phrases, “{with Frog brand Test Strips}”, “{color on the test strip matches the ideal Frog range of 0.5ppm to 1.0ppm chlorine.}”, “{Before closing the pool for winter, use the {algaecide pac} {shock pack} {algaecide and shock pacs} following the {directions on the pac label} {same directions as pool start up on page x.}”, and “{Set wide open.}.”
- On page seventeen, addition of the words, “the” and “system.” The Agency also approves the addition of the phrase, “{Frog Brand Test Strips to accurately

maintain the reduced 0.5 to 1.0 ppm chlorine level following the label directions carefully.}.”

- On page eighteen, addition of the words and/or phrases, “{up to 4000 gallons}”, “{For pools up to 98000 gallons, begin on setting 5.}”, and “{with the precise Frog Brand Test Strips.}”.
- On page nineteen, addition of the following phrases, “{or chlorine}”, “{a chlorine shock or sodium bromide product}. {For best results use a start-up spa shock packet that quickly dissolves with an effervescent fizzing action – one packet per 500 gallons.}”, and “{Frog Brand Test Strips to accurately maintain the reduced 1.0 to 2.0 ppm bromine level following the label directions carefully.}”.
- On page twenty, addition of the phrases, “{with Frog Brand Test Strips.}”, “{color on the test strip matches the ideal {Frog} bromine range of 1.0 to 2.0 ppm.}”, “{of offer for recycling.}”, and “{with the precise Frog Brand Test Strips.}”.
- On page twenty one, addition of the phrase, “{or chlorine}.”
- On page twenty two, addition of the proposed language under the heading “Start up”.
- On page twenty four, addition of the phrases, “{Use Frog Brand Test Strips with the ideal Frog bromine range clearly marked on the label.}” and “{with the precise Frog Brand Test Strips.}”.
- On page twenty five, addition of the phrase, “{a spa start-up shock packet.}”.
- On page thirty, the Agency approves the additional phrases.
- On page thirty three, the Agency approves the removal of the phrase, “Put the AAAHH in Your Spa.”
- On page thirty four, addition of the phrases, “{using the spa start-up shock packet}”, “{spa start-up shock packet}”, and “Experience the shape of Frog water testing with free Frog Brand Test Strips inside.” “Now it’s easier to maintain the low 1.0ppm bromine level with Frog Brand Test Strips. See inside for details.” “Start-up is easier with the spa start-up shock with its {effervescent} {fizzing} action that shows its working. See inside for details.” “Free spa start-up shock packet inside!”.
- On page thirty five, addition of the website and # signs.

- On page thirty seven, addition of the phrases under the heading "Copy on rebate coupons" except for the phrase, "Offers an algae protection guarantee when dispensed through the Pool Frog System."
- The Agency approves the proposed labeling claims on pages thirty nine through forty one, with the following exception(s):
  - The term "better" must be removed from the phrase, "You adopt a better, easier, more fun {pool} {spa} environment."
- The Agency approves the addition of brackets throughout the label.
- The Agency does not approve the use of the term "unconnect" throughout the label as this is not an English word. The Agency suggests the term "disconnect," and would accept its use throughout the label in place of the proposed word "unconnect."
- The phrase "Offers an algae protection guarantee when dispensed through the Pool Frog System" must be removed from page thirty seven as it implies heightened efficacy.

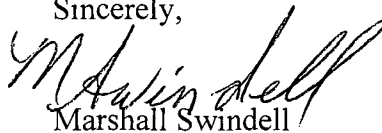
In addition, the Agency requires the removal of the phrases "Frog Mineral {System} {Technology} {Formula} + contains minerals from nature" and "Frog Mineral {System} {Technology} {Formula} + contains silver from nature" from page twenty nine. The Agency acknowledges that these claims were approved on the competitor product label, EPA Reg. Number 67712-5. The Agency has contacted that company and has required the removal of those phrases from the label.

On February 10, 2011, King Technologies, Inc. submitted a Confidential Statement of Formula for the alternate #3 formulation in support of this registration. The alternate CSF, dated February 10, 2011, is acceptable.

A stamped copy of the accepted labeling is enclosed. Submit three copies of your final printed labeling to the Agency before distributing or selling the product bearing the revised labeling.

If you have any questions concerning this letter, please contact Abigail Downs at (703) 305-5259.

Sincerely,



Marshall Swindell

Product Manager (33)

Regulatory Management Branch I  
Antimicrobials Division (7510P)

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

## **[Master Label] Pool Frog Mineral Reservoir**

**[Alternate Brand Name: Aqua Smarte Mineral Reservoir]**

**[Alternate Brand Name: Instant Frog]**

**[Alternate Brand Name: Spa Frog]**

**[Alternate Brand Name: Spa Frog Mineral Spa Care]**

**[Alternate Brand Name: Spa Frog Mineral Cartridge]**

**[Alternate Brand Name: Spa Frog Floating System]**

**[Alternate Brand Name: Pool Frog Mineral Cartridge]**

**[Alternate Brand Name: Filter Frog]**

**[Alternate Brand Name: Pool Frog Value Pack]**

**[Alternate Brand Name: Aqua Smarte Value Pack]**

**[Alternate Brand Name: Frog Mineral Pac]**

**[Alternate Brand Name: Frog Min Pac]**

ACCEPTED  
MAY 24 2011

Under the Federal Insecticide,  
Fungicide and Rodenticide Act,  
attested for the pesticide,  
registered under EPA Reg. No.

53735-11

[Front Panel]

# POOL FROG MINERAL RESERVOIR

PATENTED MINERAL {POOL} {SPA} {SANITIZER} {DISINFECTANT}

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

{The Frog Mineral {System} {Technology} {Formula}+ reduces {chlorine} {bromine} use up to 50%\*}  
{Up To 50%\* Chlorine Reduction with Pool Frog Mineral System}  
{Up to 50% reduction in {bromine} or {chlorine} use\*}

{Eliminates daily dosing for less work}

{The Frog 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}

{Frog now comes with water polishers for easier pool start up.} {Now with Start-Up Water Polishers}

ACCEPTED  
with EXEMPTIONS  
in EPA Letter Dated:  
MAR 24 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No

53735-11

**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 ----- 0.5%

Other Ingredients: ----- 99.5%

Total: ----- 100.0%

Net Wt.: \_\_\_\_\_ {lbs} {oz} {grams}

EPA Reg. No.: 53735-11

EPA Est. No.: 071209-AZ-001

**Manufactured by: King Technology, Inc., 530 11<sup>th</sup> Ave. South, Hopkins, MN 55343**  
{www.kingtechnology.com 800-222-0169}

**[Disclosure Statements 1 for Pool Cartridge, Skimmer Application and Pool Cartridge used in Floating System]**

+ FROG Mineral {System} {Technology} {Formula} consists of the FROG minerals silver chloride and carbonate used in conjunction with 0.5 ppm chlorine. The Pool Frog Mineral Reservoir {cartridge} {pac} must be used in conjunction with {the POOL FROG Bac Pac (EPA Reg. No. 53735-2)}, 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 Spa Cartridge and Filter Spa Product]**

+ FROG Mineral {System} {Technology} {Formula} consists of the FROG minerals silver chloride and carbonate used with 1.0 ppm bromine {or chlorine}. The Pool Frog Mineral Reservoir {cartridge} {pac} must be used in conjunction with {the SPA FROG Bromine Cartridge (EPA Reg. No. 53735-10)}, an EPA registered bromine {or chlorine} spa product or a bromine {or chlorine} delivery device.

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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
MAR 24 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
53735-11

8/46

**[Product Description 1 and Directions for Use for Pool Frog Mineral Reservoir]**

**Product Description:** The Pool Frog Mineral Reservoir is the heart of an advanced pool care system that destroys bacteria. The patented mineral formula in the Pool Frog Mineral Reservoir 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 Frog 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 Pool Frog Bac Pac (EPA Reg. No. 53735-2) or a chlorine delivery device. Using the Pool Frog Mineral {System} {Technology} {Formula}+ improves swimming pool pleasure by reducing the problems associated with chlorine including faded bathing suits, premature damage to pool equipment or surfaces and smelly odors. With the Pool Frog 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 Pool Frog Mineral Reservoir after 6 months.**

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

**Directions For Use with chlorine Bac Pac EPA Reg. No. 53735-2:** 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 {Cycler} {chlorinator} {feeder} along with the chlorine Bac Pac. This product is compatible with pool chemicals except biquinides and bromine. Before inserting the Pool Frog Mineral Reservoir as the pool maintenance product, balance the pH to between 7.2 and 7.8 and total alkalinity between 60-120 ppm and shock the pool with a {chlorine shock per the manufacturer's directions.} {shock pac per its label directions.} Then follow the directions below:

1. Turn circulation pump off, {turn control dial to {Pac Removal}, Setting {0} or {Off} depending on your model and remove cap} {from Cycler} {chlorinator} {feeder}.
2. {Line up slot on the side of the Pool Frog Mineral Reservoir with the fin inside the Cycler and} lower {Pool Frog Mineral Reservoir} into the {Cycler} {chlorinator} {feeder}.
3. If using the chlorine Pac, insert {into the center of this product} according to the directions on its label then replace the cap on the {Cycler} {chlorinator} {feeder} and turn pump back on. {Set the control dial on the {Cycler} {chlorinator} {feeder} 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 {Cycler} {chlorinator} {feeder} cap, {set the control dial to {Maximum}, Setting {10} {5} or {On} depending on your model} and turn pump back on. Maintain recommended chlorine levels of at least 0.5 ppm in the pool.

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

ACCEPTED  
with COMMENTS  
in EPA Letter Draft

MAR 24 2011

Under the Federal Insecticide,  
Fungicide and Rodenticide Act,  
amended for the purpose of  
registered under FIFRA, 7 U.S.C. 136

53735-11



## [Product Description] n 2 and Directions for Use for Skin Application

**Product Description:** Pool Frog Mineral Reservoir destroys bacteria. The patented mineral formula in the Pool Frog Mineral Reservoir 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 Frog Mineral {System} {Technology} {Formula}+ reduces chlorine use up to 50%\*. Use Pool Frog Mineral Reservoir with at least 0.5 ppm of an EPA registered source of chlorine or a chlorine delivery device. Using the Frog Mineral {System} {Technology} {Formula}+ with reduced chlorine levels improves swimming pool pleasure by reducing the problems associated with chlorine including faded bathing suits, premature damage to pool equipment or surfaces and smelly odors. With Pool Frog 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.

**Replace the Pool Frog Mineral Reservoir after 6 months.**

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

**Directions for Use:** For in-ground pools up to 25,000 gallons. This product is compatible with pool chemicals except biquinides and bromine. Before using Pool Frog Mineral Reservoir as the pool maintenance product, balance the pH to between 7.2 and 7.8 and total alkalinity between 60-120 ppm and shock the pool with a chlorine shock per the manufacturer's directions. Then follow the directions below:

1. Set reminder dial on Pool Frog Mineral Reservoir 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} {drop} Pool Frog Mineral Reservoir into the skimmer basket.
4. If using Pool Frog Mineral Reservoir 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 at least 0.5 ppm in the pool by using an EPA registered source of chlorine approved specifically for swimming pools or a chlorine delivery device.

ACCEPTED  
with COMMENTS  
in EPA Letter Document  
MAR 24 2011

under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
extended, for the pesticide  
registered under EPA Reg.  
53735-11

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**[Product Description 3 and Directions for Use for Pool Frog Cartridge used in Floating System]**

**Product Description:** The Pool Frog Mineral Reservoir destroys bacteria while the patented mineral formula 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 Frog Mineral {System} {Technology} {Formula}+ reduces chlorine use up to 50%\*. Simply use the Pool Frog Mineral Reservoir with at least 0.5 ppm of an EPA registered source of chlorine or a chlorine delivery device. Using the Pool Frog Mineral {System} {Technology} {Formula}+ with reduced chlorine levels improves swimming pool pleasure by reducing the problems associated with chlorine including faded bathing suits, premature damage to pool equipment or surfaces and smelly odors. With the Pool Frog Mineral Reservoir, pool care is easy and effective.

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

**Directions for Use:** For use in small above ground pools {up to 4000} {between 4000 and 9000} {up to 9000} gallons. Use this Pool Frog Mineral Reservoir with the Pool Frog Chlorine Cartridge in the Frog Splash System. Ensure all equipment is working properly according to the pool manufacturer. For best results, balance pH to between 7.2 and 7.8.

**Setting Pool Frog Mineral Reservoir:** While holding the bottom of the cartridge, turn the top until the number 6 appears in the setting window.

**Using the Frog Splash System:** Push the Pool Frog Mineral Reservoir into the bottom opening of the floating Frog Splash System. For best results, insert the Pool Frog Chlorine Cartridge (EPA Reg. No. 53735-2) into the other opening. Set entire system in the pool water.

ACCEPTED  
with COMMENTS  
in DDF Letter Packet

MAR 24 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
53735-11

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**[Product Description 4 and Directions for Use for Spa Cartridge]**

**For use in the {In-Line System} {or the} {Floating System}**

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

**Replace the Pool Frog Mineral Reservoir after 4 months or when draining and refilling spa with fresh water.**

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

**Directions for Use:** For use in spas up to 600 gallons. Use this Pool Frog Mineral Reservoir with the Spa Frog Bromine Cartridge in {either} the {In-Line System} {or} {Floating System}. Ensure all spa equipment is working properly. 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 spa, establish a bromine or chlorine residual of 1.0-2.0 ppm with {an EPA approved spa shock} {or by other means} {a start-up spa shock packet}. Always maintain a bromine {or chlorine} residual of at least 1.0 ppm. Shock spa 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 spa free of leaves and debris.

**Setting Pool Frog Mineral Reservoir:** 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 application{s}:

**{Using the In-Line System:** Open cap of In-Line System. Push down and turn cartridge holder counter-clockwise to unlock. Pull holder out. Snap the Pool Frog Mineral Reservoir 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 SPA FROG Bromine Cartridge (EPA Reg. No. 53735-10) in the area marked "Bromine" (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 Pool Frog Mineral Reservoir into the bottom opening of the floating Spa Frog system. For best results insert the Spa Frog Bromine Cartridge (EPA Reg. No. 53735-10) into the other opening. Set entire system in the spa water.}

ACCEPTED  
with COMMENTS  
in FIF Letter Dated:  
MAR 24 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
53735-11

12/46

## [Product Description] n 5 and Directions for Use for Filter [Spa Product]

**Product Description:** Pool Frog Mineral Reservoir contains a patented mineral formula that destroys bacteria while neutralizing acids, which helps keep the pH in an acceptable range with less monitoring. Using the Frog Mineral {System} {Technology} {Formula}+ with reduced levels of bromine {or chlorine} improves spa pleasure {by reducing the problems associated with bromine {or chlorine} including {faded} {fading} bathing suits, premature damage to spa equipment or surfaces and smelly odors}.

**Replace Pool Frog Mineral Reservoir after 4 months or when draining and refilling spa with fresh water.**

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

**Directions for Use:** For use in spas up to 600 gallons. Ensure all spa equipment is working properly. 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 spa, establish a bromine or chlorine residual of 1.0-2.0 ppm with {an EPA approved spa shock} {or by other means} {a start-up spa shock packet}. Always maintain a bromine {or chlorine} residual of at least 1.0 ppm. Shock spa 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 spa free of leaves and debris.

**Installing Pool Frog Mineral Reservoir:** {Set reminder dial to four months from month of installation. Turn dial by hand or with a coin if needed.} {Mark your calendar with enclosed reminder sticker for the 4 month replacement date.} {Set for 4 months} Place Pool Frog Mineral Reservoir in one of the following locations:

- Majority of Spas: insert Pool Frog Mineral Reservoir 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.
- High Flow Spas: on skimmer filters with 2.5 HP or larger pump motors, place Pool Frog Mineral Reservoir in filter well outside the filter cartridge.
- Small Cartridge or Other Spas: place Pool Frog Mineral Reservoir in skimmer tray.

ACCEPTED  
with COMMENTS  
in EPL Letter Dated:  
MAR 24 2011  
Under the Federal Insecticide,  
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53735-11

13/46

**[Disposal Statement 1 for Pool Cartridge, Skimmer Application and Pool Cartridge used in Floating System]**

**Disposal:** After six months of use, discard Pool Frog Mineral Reservoir in trash even if it appears there is spent media left inside. Non-refillable container. Do not reuse or refill this container. {Do not attempt to reuse the {Reservoir} {cartridge} {pac} once removed from the {Frog Cyclor} {skimmer} {floating Frog system}.} In the unlikely event that a {Reservoir} {cartridge} {pac} should break and release raw minerals into the pool - vacuum out.

**[Disposal Statement 2 for Spa Cartridge and Filter Spa Product]**

**Disposal:** After four months of use, or when draining and refilling the spa with fresh water, discard Pool Frog Mineral Reservoir 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 container. {Do not attempt to reuse the product once removed from the spa.}

{NOTICE: 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: Buyer assumes all responsibility for safety and use not in accordance with directions. }

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAR 24 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No

53735-11

14/46

**[Operational Instructions 1 for Pool Cartridge]**  
[All text is optional]

**POOL FROG Mineral Reservoir:  
Patented Mineral Pool {Sanitizer} {Disinfectant}**

**Operational Instructions**

**REPLACE {Mineral Reservoir} EVERY 6 MONTHS OR  
AFTER ONE POOL SEASON WHICHEVER IS SHORTER.**

**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. Take a water sample to your local pool professional {or use a complete test kit} that will test for the following important elements.

**Water Balance Guidelines**

pH:	7.2-7.8
Total Alkalinity:	60-120 ppm
Calcium Hardness:	150-400
Total Dissolved Solids:	<1500
Stabilizer:	20-80 ppm
Free Chlorine:	0.5-1.0 ppm

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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 FROG Brand Test Strips} and maintain its balance by adding any necessary adjustment products (see you 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.

{Using {algaecide pac} {shock pac} {algaecide and shock pacs} to start-up the pool.

1. Remove child proof caps.
2. Turn shock pac over and insert into {cyclor} {chlorinator} {feeder} before using the Pool Frog Mineral Reservoir. {Turn shock pac over and insert in the center of the Pool Frog Mineral Reservoir.}
3. Replace cap and run pump until pac is empty.
4. Pull pac up and allow water to drain through {cyclor} {chlorinator} {feeder}. Recycle or discard in trash.
5. {Wait 24 hours then insert algaecide pac into {cyclor} {chlorinator} {feeder} {the center of the Pool Frog Mineral Reservoir.}
6. Replace cap, run pump until pac is empty and remove pac. Recycle or discard in trash.}

**{Replacing} {Using} a POOL FROG Mineral Reservoir, {FROG BAM} and Bac Pac**

King Technology: Pool Frog Mineral Reservoir EPA Reg. No. 53735-11

Label Version January 10, 2011

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1. Check the {top} {front} of the box {and {back} label of product} to make sure you have the correct POOL FROG Mineral Reservoir to fit your {POOL FROG Cyclor} {chlorinator} {feeder}. The colored barcode will indicate {if it fits in ground versus above ground.} {how many gallons it will handle.} {Above Ground Series XXXX or In Ground Series XXXX for use with Cyclor Models XXXX and XXXX.}

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

2. {Once you have determined you have the right mineral reservoir,} open the box and remove the POOL FROG MINERAL RESERVOIR.

IMPORTANT: Remove and read the inserted information card.

{CAUTION read carefully –

USE ONLY the factory recommended replacement POOL FROG Mineral Reservoir, {algaecide pac} {shock pac} {algaecide and shock pacs} {FROG BAM} and Bac Pac. DO NOT USE any other pac or bulk chemical tablets in the cyclor. Use of any other product could result in damage to pool equipment or surface, unsafe pool conditions, fire or explosion. Warranty will be void if the correct POOL FROG Mineral Reservoir, {algaecide pac} {shock pac} {algaecide and shock pacs} {FROG BAM} and Bac Pac are not used.}

3. Turn off pump {and turn dial to {Pac Removal}, Setting {0} or {Off} depending on the model.}
4. Open cap, if using bac pac stand back to avoid inhaling chlorine fumes.
5. {Find slot on side of POOL FROG Mineral Reservoir and line up with fin inside the cyclor.} {Pull up on Bac Pac to {remove} {disconnect} old Reservoir and discard in trash.} {Insert Bac Pac inside new reservoir.} {Push together until parts connect.} Lower {POOL FROG Mineral Reservoir} into {cyclor} {chlorinator} {feeder} until secure.

### **{USING FROG BAM FOR AN ALGAE-PROTECTION GUARANTEE**

(If you are not using FROG BAM proceed to Step 12.)

For a preventative dose, add one FROG BAM for pools up to 15,000 gallons or two FROG BAM for pools between 15,000 and 30,000 gallons.

See FROG BAM product labeling for complete directions for use (EPA Reg. No. 53735-9).

6. Remove cap from FROG BAM without removing seal.
7. {Insert upside down into center of POOL FROG Mineral Reservoir} {Insert FROG BAM into center of reservoir {pushing together until parts connect} and lower into {cyclor} {chlorinator} {feeder} pushing down firmly on key to puncture seal.
8. Replace cap by hand only. DO NOT OVER TIGHTEN. {Turn control dial {on cyclor} to {Maximum}, Setting {10} {5} or {On} depending on the model.}
9. Turn pump on for 90 minutes allowing FROG BAM to circulate through pool.
10. To remove FROG BAM, turn pump off, turn dial to {Pac Removal}, Setting {0} or {Off} depending on the model, remove {cyclor} cap.
11. Lift FROG BAM up and allow any water in the container to drain through the {cyclor} {chlorinator} {feeder}, {remove} {disconnect} from Reservoir} and recycle or discard in trash.

NOTE: If water shows more than a hint of blue inside cyclor, replace the {cyclor} {chlorinator} {feeder}

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cap, {turn dial to {Maximize}}, Setting {10} {5} or {On}} and run the pump for one minute.

11a. If pool size requires additional FROG BAM, repeat steps 6-11.

11b. When water is clear in {cycler} {chlorinator} {feeder}, proceed to step x.}}

## USING THE {BAC PAC} {Chlorine Pac}

{Pool Frog Bac Pac for use in the in ground and above ground systems}

{Pool Frog Pac 540C for use in the XL Pro Chlorine Cycler}

{Pool Frog Pac 610C for use in the dual 25K chlorine cycler {Pool Frog Twin}}

12. {Bac Pac} {Chlorine pacs} are recommended to assure up to 50%\* reduction in chlorine use.  
Pacs sold separately. (EPA Reg. No. 53735-2)

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

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

### Open Pac

#### 12a. Pool Frog Bac Pac

For Bac Pac, remove colored tabs by grabbing on to the lip of one cap and pulling up until cap releases. Repeat the process for the other cap.

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#### 12b. Pool Frog Pac 540C and 610C

For 540C and 610C pacs, find the indent in the plastic handle and cut using a 2"PVC cutter or hacksaw. Either way, 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 Pool Frog Pac. Leave at least 1/4" of plastic to fit into the Pool Frog Cycler.

13. {Turn bac pac over} {invert pac} and shake slightly until chlorine tablets fall into tower areas.

#### 14. Insert Pac into Cycler

##### 14a. Pool Frog Bac Pac.

For Bac Pac, {line up the small leg with small opening in the POOL FROG Mineral Reservoir and large leg with the large opening.} {Insert into center of reservoir.} {Push together until snapped in place.} Lower {pac} into {cycler} {chlorinator} {feeder} {POOL FROG Mineral Reservoir} until secure.

##### 14b. Pool Frog Pac 540C and 610C .

For 540C or 610C line up the openings in the pacs with the keys in the Pool Frog Chlorine Cycler. Note; Openings are a different shape than keys. Lower pac until secure.

15. Replace cap by hand only. DO NOT OVER TIGHTEN.

16. The chlorine 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.

17. Mark your calendar for the six month replacement of the POOL FROG Mineral Reservoir, {90-day replacement of FROG BAM} and approximate replacement times for the Bac Pac. 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

### Pool Frog Mineral Reservoir {now with Start-up Water Polishers for easier start up.}

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} {a shock pac} 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 {cyclor} {chlorinator} {feeder} 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. {Insert an algaecide pac to complete the start-up process. (See pg x for directions.)}
4. Install POOL FROG Mineral Reservoir into the {cyclor} {chlorinator} {feeder}. (See page 1 for directions.)

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

5. Replace cap and run {cyclor} {chlorinator} {feeder}, with POOL FROG Mineral Reservoir inserted, for 10 minutes {on setting {Maximum}, Setting {10} {5} or {On} depending on the model.}
6. {Insert FROG BAM into POOL FROG Mineral Reservoir {in cyclor} {chlorinator} {feeder}. (See page 1 for directions.)}
7. When chlorine reading is down to 1.0 ppm, which may take a few days, insert chlorine {bac} pac. (See {left column} {page x} for directions.)

### {FOR IN GROUND MODELS}

For In Ground models, cap removal is easier if using the tool included with the cyclor. To loosen cap, hit the handle with the flat of your hand counter clockwise.  
DO NOT USE CAP TOOL TO TIGHTEN CAP.}

## Start-up and Operation

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

8. **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 # 9 for directions.

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Above Grd. POOL SIZE	6 Hour Pump Run Time				12 Hour Pump Run Time				24 Hour Pump Run Time			
	PUMP SIZE				PUMP SIZE				PUMP SIZE			
	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	4.5	4	3.5	4.5	4	3	2.5	3.5	3	2.5	2
9,000 (21')	5.5	5	4.5	4	5	4.5	4	3.5	4	3.5	3	2.5
12,000 (24')	6	5.5	5	4.5	5.5	5	4.5	4	3.5	3	2.5	2
15,000	NR	6	5.5	5	6	5.5	5	4.5	5	4.5	4	3.5
20,000	NR	NR	6	5.5	NR	6	5.5	5	5.5	5	4.5	4

Inground POOL SIZE	6 Hour Pump Run Time				12 Hour Pump Run Time				24 Hour Pump Run Time			
	PUMP SIZE				PUMP SIZE				PUMP SIZE			
	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	4.0	3.5	3.0	2.5	3	2.5	2	1.5	2.5	2	1.5	1
9,000	4.5	4.0	3.5	3.0	3.5	3	2.5	2	2.5	2	1.5	1
12,000	5.0	4.5	4.0	3.5	4	3.5	3	2.5	3	2.5	2	1.5
15,000	NR	5.0	4.5	4.0	5	4	3.5	3	3.5	3	2.5	2
20,000	NR	NR	5.0	4.0	NR	5	4	3.5	4	3.5	3	2.5
25,000	NR	NR	NR	5.0	NR	5.5	5	4	4.5	4	3.5	3
30,000	NR	NR	NR	6.0	NR	6.5	5.5	5	5.5	4.5	4	3.5
35,000	NR	NR	NR	7.0	NR	7.5	6.5	5.5	6.5	5.5	4.5	4
40,000	NR	NR	NR	7.0	NR	NR	6.5	5.5	6.5	5.5	4.5	4

\* Bypass installation recommended. NR - This pump size is not recommended for this size pool.

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{IMPORTANT: Pump run times of at least 6 hours 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 or high speed less than 6 hours, bleed the air while the pump is on by unscrewing the cap knob until water appears. Then screw the knob back on. 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 9 to determine the correct setting for your pool.}

- For the first week test the pool water daily for free chlorine {with Frog 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 Frog 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.
- Shock pool every two weeks or as needed to maintain water quality. Follow label directions on the chlorine shock treatment used.
- {Before closing the pool for winter, use the {algaecide pac} {shock pac} {algaecide and shock pacs} following the {directions on the pac label} {same directions as pool start up on page x.}}

### If using another means of chlorine

Follow steps 1-5 on Start-up and Operation and then continue below.

- {Maintain setting of {Maximum}, Setting {10} {5} or {On} depending on the model.} {Set wide open.} No adjustments needed.
- Maintain a minimum chlorine reading of 0.5 ppm with a chlorine delivery device or hand feeding.
- Shock pool every two weeks or as needed to maintain water quality. Follow label directions on the chlorine shock treatment used.

**[Operational Instructions 2 for Skimmer Application]**  
**[All text is optional]**

**POOL FROG MINERAL RESERVOIR**

**Patented Mineral Pool {Sanitizer} {Disinfectant} Instruction Manual**

ELIMINATES DAILY DOSING FOR LESS WORK

SPARKLING WATER FOR IN GROUND POOLS

**Specifications**

For in ground pools ONLY.

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.)

**Pool Start Up**

1. Balance water according to the chart.

**Water Balance Guidelines**

pH:	7.2-7.8
Total Alkalinity:	60-120 ppm
Calcium Hardness:	150-400
Total Dissolved Solids:	<1500
Stabilizer:	20-80 ppm
Free Chlorine:	0.5-1.0 ppm

2. Shock pool to remove all contaminants. (Follow manufacturer's directions.)

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

Thank you for purchasing the Pool Frog Mineral Reservoir. With mineral pool care, your water will feel softer, shine brighter while reducing chemicals and overall pool maintenance.

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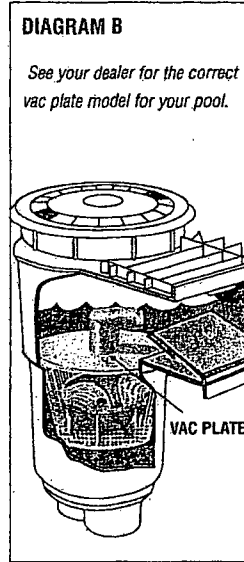
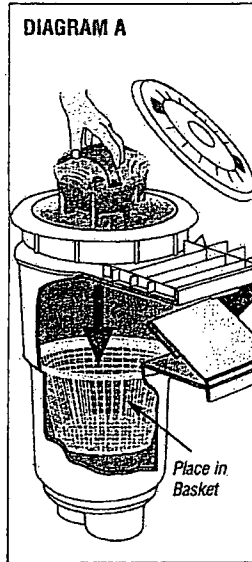
## Installing a Pool Frog Mineral Reservoir

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1. Set reminder dial on the Pool Frog Mineral Reservoir to 6 months from date of installation. Turn dial by hand or with a coin if needed.
2. Remove skimmer cover and skimmer basket handle if applicable. Insert the Pool Frog Mineral Reservoir into skimmer basket. **DIAGRAM A**
3. If using the Pool Frog Mineral Reservoir 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**

### Regular Pool

1. Run hours per
2. Regularly alkalinity
3. Maintain level at floater is chlorine place Mineral



### Care

pump and filter at least 8 day.

test water for pH, total and chlorine levels.

at least 0.5 ppm chlorine all times. A chlorinator or recommended. If using pucks in the skimmer basket, them under the Pool Frog Reservoir.

pool every two weeks or as

4. Shock needed to maintain water quality. Follow label directions on the chlorine shock treatment used.
5. Check filter gauge regularly and clean or back-wash when needed per the manufacturer's directions.
6. Periodically clean skimmer basket of excess debris as normal.
7. REMEMBER TO REPLACE THE POOL FROG MINERAL RESERVOIR EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER.

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# [Operational Instructions 3 for Pool Cartridge used in Floating System]

[All text is optional]

## POOL FROG Mineral Reservoir OPERATING INSTRUCTIONS

Congratulations for purchasing {the Frog Splash System}— the complete mineral and chlorine disinfecting system. When using the patented Pool Frog Mineral Reservoir with the proprietary Pool Frog Chlorine Cartridge you'll enjoy your pool more with less work and less chlorine.

### Less work because:

- The Frog Mineral {System} {Technology} {Formula}+ continuously works to destroy bacteria for six {full} months.
- Cartridges last longer to eliminate daily maintenance.
- Cartridges are pre-filled for no measuring and no mess.
- Simply adjust to your setting and relax for weeks.

### Less chlorine because:

- With minerals in the water, chlorine use is cut up to 50%\*
- With minerals and low levels of chlorine, the water feels softer.
- The system reduces odors and leaves the water crystal clear.

You're going to love your {Frog Splash} System. If you have any questions, contact our customer service representatives at 800-222-0169.

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

### Pool Start Up

- Clean and replace filter cartridges when dirty (follow manufacturer's instructions)
- Balance water according to the chart

#### Water Balance Guidelines

pH:	7.2-7.8
Total Alkalinity:	60-120 ppm
Calcium Hardness:	150-400
Total Dissolved Solids:	<1500
Stabilizer:	20-80 ppm
Free Chlorine:	0.5-1.0 ppm

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NOTE: Chlorine levels are lower only when used with Frog minerals

- Very Important: Before using cartridges, establish an initial chlorine residual of 1.0 ppm with a chlorine shock. DO NOT use a non-chlorine shock. Use {the appropriate chlorine test strips or kit and follow manufacturer's instructions.} {Frog Brand Test Strips to accurately maintain the reduced 0.5 to 1.0 ppm chlorine level following the label directions carefully.}
- Begin regular pool care procedures (see back page) as soon as start up is complete.

### Setting Cartridges

- Set the mineral cartridge to wide open on #6 by holding the bottom and turning the top until the number 6 appears in the setting window. No further adjustments are necessary.
- Set the chlorine cartridge to an appropriate starting setting depending on pool size {by holding the bottom and turning the top of the cartridge until the desired number appears in the setting window}. {For pools 1000 gallons or less begin on setting 1 or 2.} {For larger pools {up to 4000 gallons} begin on setting 3.} {For pools up to 9000 gallons, begin on setting 5.} Initially monitor chlorine levels daily until at least 0.5 ppm is maintained. Adjusting to a higher setting will increase chlorine output while a lower setting will decrease it. NOTE: if the setting is too high, bleaching of pool liners may occur in smaller pools.

### Using the {Frog Splash} System

- Insert both cartridges into the floating holder by pushing them into the openings until they stay in place.
- Let the system free float in the pool.
- When using the pool, simply remove the system, drain most of the water into the pool and set it outside the pool inverted so all excess water drains into the holder.
- REMEMBER TO REPLACE IT IN WATER WHEN FINISHED USING POOL!

### Replacing Cartridges

- The Pool Frog Mineral Reservoir must be replaced every 6 months or once a pool season whichever is shorter. At that time discard Pool Frog Mineral Reservoir 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 six months. Do not attempt to reuse the product once removed from the pool. {For ease in remembering to replace, mark your calendar with the reminder stickers provided with the product.}
- Replace the Pool Frog Chlorine Cartridge when empty. Drain water in cartridge to ensure it is empty then discard in trash. The cartridge life will vary depending on pool size and number of users. {Once your usage is determined, mark the calendar with enclosed reminder stickers.}

### Regular Pool Care

- Run filtration system as recommended by your spa manufacturer.
- Regularly test water for pH, total alkalinity and chlorine levels {with the precise Frog Brand Test Strips.}
- Maintain at least 0.5 ppm chlorine level at all times.
- Shock the pool once a week or as needed.
- Additional shocking may be required if pool is under heavy use. This is often the case when the pool is new.
- Remember to replace Pool Frog Mineral Reservoir and Pool Frog Chlorine Cartridge as directed under "Replacing Cartridges."

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# [Operational Instructions 4 for Spa Cartridge used in Coating System]

[All text is optional]

## Floating System Operation Instructions

Congratulations! Your spa came with a complete mineral and bromine {or chlorine} {sanitation} {disinfecting} {disinfection} system. When using the patented Pool Frog Mineral Reservoir with the proprietary Spa Frog Bromine Cartridge, you'll enjoy your spa more with less work and less bromine {or chlorine}.

### Less Work Because:

- The Frog Mineral {System} {Technology} {Formula}+ continuously works to control bacteria for four full months.
- Cartridges last longer to eliminate daily maintenance.
- Cartridges are pre-filled for no measuring or mess.
- Simply adjust to your settings and relax for weeks.

### Less Bromine {or Chlorine} Because:

- With minerals in the water, bromine {or chlorine} use is cut by up to 50%.\*
- Bromine {Chlorine} lasts longer: 2-4 weeks on a 350 gallon spa with average use.
- With minerals and low levels of bromine {or chlorine}, the water feels softer.
- The system reduces odors and leaves the water crystal clear.
- Frog Mineral System} {Technology} {Formula}+ works with bromine.

You're going to love your Frog System. If you have any questions, contact our customer service representatives at **800-222-0169**.

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

### Spa Start Up

- Always drain and refill spa at least every 4 months.
- Clean and replace filter cartridges when dirty (*Follow manufacturer's instructions*).
- Balance water according to the chart.

#### Water Balance Guidelines

pH:	7.2 – {7.6} {7.8}
Total Alkalinity:	80 – 180 ppm
Calcium Hardness:	150-400
Total Dissolved Solids:	<1500
*Free Bromine {or Chlorine}:	1.0 – 2.0 ppm

NOTE: Bromine {or chlorine} levels are lower only when used with Frog minerals

- Heat water to recommended temperature before using cartridges.
- **Very Important!** Before using cartridges, establish an initial residual of 1.0-2.0 ppm bromine or chlorine with {either granular Brominating Concentrate™ (which typically contains 85% sodium dichlor (chlorine) and 15% sodium bromide) OR a chlorine shock} {a chlorine shock or sodium bromide product}. {For best results use a start-up spa shock packet that quickly dissolves with an effervescent fizzing action – one packet per 500 gallons.} {Do not use a non-chlorine shock.} Use {the appropriate bromine or chlorine test strips or kit and follow manufacturer's instructions.} {Frog Brand Test Strips to accurately maintain the reduced 1.0 to 2.0 ppm bromine level following the label directions carefully.}

Brominating Concentrate™ is a registered trademark of Bio-Lab, a Chemtura Company.

- Begin regular spa care procedures (see back page) as soon as start up is complete.

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### Setting Cartridges

- Set the blue mineral cartridge to wide open on #6 by holding the bottom and turning the top until the number 6 appears in the setting window. No further adjustments are necessary.
- With a freshly filled spa, initially set the yellow bromine cartridge on #5 for the first 24 hours **ONLY**. Then the first week or so, before each use, test the water {with Frog Brand Test Strips} and adjust cartridge by 1 setting per day until the {bromine stabilizes to at least 1.0 ppm;} {color on the test strip matches the ideal {Frog} bromine range of 1.0 to 2.0 ppm.}

### Using the Floating System

- Insert both cartridges into the green floating holder by pushing them into the openings until they stay in place.
- Let the Floating System free-float in the spa.
- When using the spa, simply remove the Pool Frog Mineral Reservoir, drain most of the water into the spa and set on the side of the spa inverted so all excess water drains into the holder.
- REMEMBER TO REPLACE IT IN THE WATER WHEN FINISHED USING SPA!

### Replacing Cartridges

- The Pool Frog Mineral Reservoir must be replaced every 4 months. After four months of use, or when draining and refilling the spa with fresh water, discard Pool Frog Mineral Reservoir 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. Do not attempt to reuse the product once removed from the spa. For ease in remembering to replace, mark your calendar with the reminder stickers provided with product.
- Replace the bromine cartridge when empty. Drain water to ensure cartridge is empty then discard in trash {or offer for recycling}. The cartridge life will vary depending on spa size and number of users. Once your usage is determined, mark the calendar with enclosed reminder stickers.

### Regular Spa Care

- Run filtration system as recommended by your spa manufacturer.
- Regularly test water for pH, total alkalinity and bromine levels {with the precise Frog Brand Test Strips.}
- Maintain at least 1.0 ppm bromine level at all times.
- Shock the spa once a week or as needed.
- Additional shocking may be required if the spa is under heavy use. This is often the case when the spa is new.
- Remember to replace Pool Frog Mineral Reservoir and Spa Frog Bromine Cartridge as directed under "Replacing Cartridges".

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# [Operational Instructions 5 for Spa Cartridge used in In-Line System] [All text is optional]

## In-Line System Operating Instructions

### Congratulations!

Your spa came with a complete mineral and bromine {or chlorine} {sanitation} {disinfecting} {disinfection} system. When using the patented Pool Frog Mineral Reservoir with the proprietary Spa Frog Bromine Cartridge, you'll enjoy your spa more with less work and less bromine {or chlorine}.

### Less Work Because:

- The Frog Mineral {System} {Technology} {Formula}+ continuously works to control bacteria for four full months.
- Cartridges last longer to eliminate daily maintenance.
- Cartridges are pre-filled for no measuring or mess.
- Simply adjust to your setting and relax for weeks.

### Less Bromine {or Chlorine} Because:

- With minerals in the water, bromine {or chlorine} use is cut by up to 50%.\*
- Bromine {Chlorine} last longer: 2-4 weeks on a 350 gallon spa with average use.
- With minerals and low levels of bromine {or chlorine}, the water feels softer.
- The system reduces odors and leaves the water crystal clear.
- Frog Mineral {System} {Technology} {Formula}+ works with bromine.

You're going to love your FROG System. If you have any questions, contact our customer service representatives at **800-222-0169**.

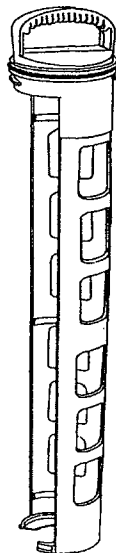
\* Compared to the minimum ANSI recommended bromine {or chlorine} level of 2.0 ppm for a spa.

### Let Us Dissect This Frog For You:

The In-Line System is made up of (A) a Frog cap that is easily distinguishable among the fittings on the top {rim} {edge} of the spa, (B) a cartridge holder that pulls out of the system, (C) a mineral cartridge that helps control bacteria in the water and (D) a bromine cartridge that helps support the minerals while oxidizing contaminants like body oils. The cartridges are adjustable to meet your specific spa water care needs.



A. Frog Cap



B. Cartridge Holder



C. Mineral Cartridge



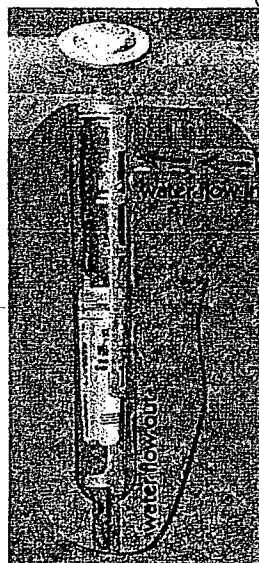
D. Bromine Cartridge

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



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**Start Up** • Follow all directions from your spa manufacturer on filling and balancing the water in your spa. Standard guidelines for balancing the water are as follows:

#### Water Balance Guidelines

pH:	7.2-{7.6} {7.8}
Total Alkalinity:	80-180 ppm
Calcium Hardness:	150-400
Total Dissolved Solids:	<1500
*Free Bromine {or Chlorine}:	1.0-2.0 ppm

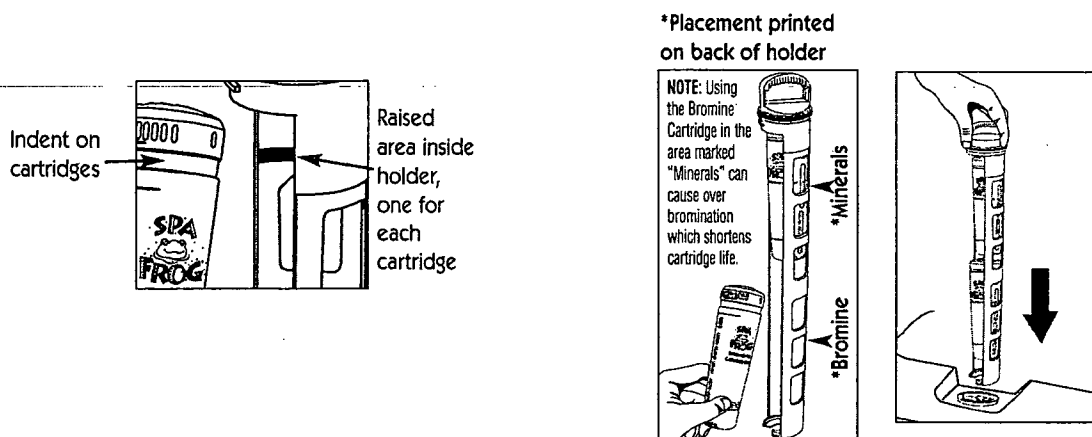
\*NOTE: Bromine {or chlorine} levels are lower only when used with Frog minerals

- Use a metal out or sequestering agent if fill water is high in metals. Wait 24 hours before continuing start up.
- **Very Important!** {Shock spa to establish a 1.0-2.0 ppm bromine {or chlorine} residual. Add directly to spa following manufacturers' directions.} Before using cartridges, establish an initial residual of 1.0-2.0 ppm bromine or chlorine with {either granular Brominating Concentrate™ (which typically contains 85% sodium dichlor (chlorine) and 15% sodium bromide) OR a chlorine shock.} {a chlorine shock or sodium bromide product}. {For best results use a start-up spa shock packet that quickly dissolves with an effervescent fizzing action – one packet per 500 gallons} {Do not use a non-chlorine shock.} Do NOT add through the In-Line System. Use {the appropriate bromine or chlorine test strips or kit and follow manufacturer's instructions.} {Frog Brand Test Strips to accurately maintain the reduced 1.0 to 2.0 ppm bromine level following the label directions carefully.}
- When spa reaches operating temperature per your spa manufacturer's directions, set the mineral and bromine cartridges according to directions on page # and insert them into the System.

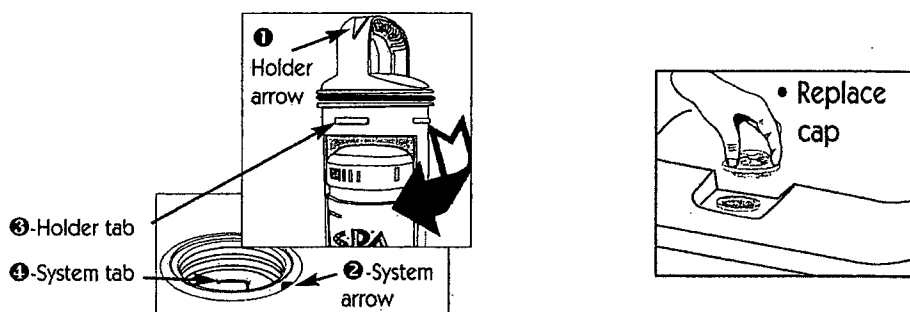
#### Replacing Cartridges

- 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 before pulling out.

- Remove spent cartridges by pushing bottom out through openings in back of holder. Then grab cartridge and pull out.
- Snap the Pool Frog Mineral Reservoir into the area marked "Minerals" (top portion) and the Spa Frog Bromine Cartridge into the area marked "Bromine" (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. 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.



- Begin regular spa care procedures (see page #) as soon as start-up is complete.

#### **Adjusting and When to Replace Pool Frog Mineral Reservoir:**

- Set Pool Frog Mineral Reservoir wide open on #6 by holding the bottom and turning the top until the number 6 appears in the setting window.
- The Pool Frog Mineral Reservoir must be replaced every 4 months. After four months of use, or when draining and refilling the spa with fresh water, discard Pool Frog Mineral Reservoir 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. Do not attempt to reuse the product once removed from the spa. For ease in remembering, mark your calendar with the Reminder Stickers included with this manual {See spa manufacturer's draining recommendations.}

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King Technology: Pool Frog Mineral Reservoir EPA Reg. No. 53735-11  
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## Adjusting and When to Replace Spa Frog Bromine Cartridge:

As every spa is different, finding the right setting for the bromine cartridge will require monitoring your usage for the first week or two. Begin with an initial setting based on the chart {below} {on page #} and monitor bromine levels daily or before each use, adjusting the cartridge by one setting per day until a 1.0-2.0 ppm level has been achieved. {Use Frog Brand Test Strips with the ideal Frog bromine range clearly marked on the label.} To adjust cartridge, remove from system and turn to the next highest setting if the bromine level is low, or the next lower setting if the bromine level is high. The bromine cartridge needs to be replaced when empty. Drain water to ensure empty then discard in trash. On most spas, it will last between 2 and 4 weeks. Always maintain at least 1.0 ppm bromine level.

### **INITIAL START-UP SETTING**

Daily Filter Time	Spa Size (Gallons)		
	250-300	300-400	400-500
One Hour	2	3	4
Two Hours	2	2	3
Four Hours	1	2	2
24 hour @ low flow	1	2	2

NOTE: The more you use the spa, for instance when you first get it, the greater the setting to achieve at least 1.0 ppm. (This may require a higher setting than what is listed in the chart.) If usage decreases or the bromine level is greater than 2.0 ppm, the setting should be lowered.

### Regular Spa Care Procedures:

Always follow the directions for operating your particular spa.

- Run filtration system as directed by your spa manufacturer to maintain proper water flow through the In-Line System.
- Regularly test water for pH, total alkalinity and bromine levels {with the precise Frog Brand Test Strips}. Maintain at least 1.0 ppm bromine {or chlorine} level at all times.
- Shock the spa {with granular chlorine or a non-chlorine shock} once a week or as needed. Additional shocking may be required if the spa is under heavy use. This is often the case when the spa is new.
- Remember to replace your Pool Frog Mineral Reservoir and Spa Frog Bromine Cartridges as directed under "Adjusting and When to Replace".
- Lubricate o-ring twice a year with a silicone lubricant.

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**[Operational Instructions 6 for Filter Spa Product]**  
**[All text is optional]**

**Operation Manual For Use in Filter Core**

**Specifications**

- Fits in most filters.
- Handles spas up to 600 gallons.
- Lasts 4 months.
- {Easy to set reminder dial for product replacement.}
- Use with bromine or chlorine.

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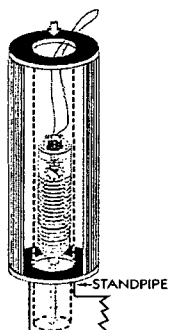
**Spa Start Up**

- Always drain and refill spa at least every 4 months.
- Clean or replace filter cartridge when dirty (*Follow manufacturers directions*).
- Balance water according to the chart.
- Shock spa to establish a bromine or chlorine residual of 1.0-2.0 ppm with {an EPA approved spa shock} {or by other means} {a spa start-up shock packet}. (*Follow manufacturer's directions*).
- Begin Regular Spa Care procedure on back page.

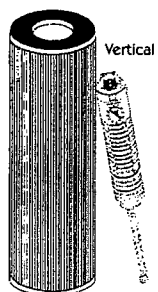
Note: Bromine {or chlorine} levels are lower only when used with the Frog Mineral {System} {Technology} {Formula}+

**Installing Pool Frog Mineral Reservoir**

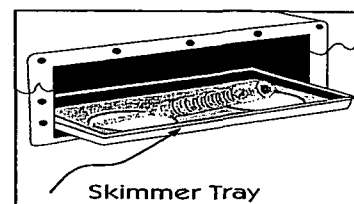
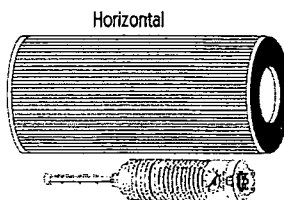
- {Set reminder dial on Pool Frog Mineral Reservoir to 4 months from month of installation. Turn dial by hand or with a coin if needed.} {Mark your calendar with enclosed reminder sticker for the 4 month replacement date.}
- Place Pool Frog Mineral Reservoir in one of the following locations in spa:
  - a) Majority of Spas** – Insert Pool Frog Mineral Reservoir inside filter cartridge core (**Diagram A**). Do not allow Pool Frog Mineral Reservoir to sit too low in the filter. If blocking water flow install in filter well (**Diagram B**). If Pool Frog Mineral Reservoir is inside a standpipe, attach a string to the {handle on top} {Frog head handle} for easy removal.
  - b) High Flow Spas** – On skimmer filters with 2.5 HP or larger pump motors, place Pool Frog Mineral Reservoir in filter well outside the filter cartridge (**Diagram B**).
  - c) Small Cartridge or Other Spas** – Place Pool Frog Mineral Reservoir in skimmer tray (**Diagram C**).



**Diagram A**



**Diagram B –**  
 High Flow Spas in Filter Well



**Diagram C**

If unit is too tall, cut rod at hash marks to shorten.

### Regular Spa Care

- Ensure all spa equipment is working properly.
- Run filtration system a minimum of three hours per day.
- 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.
- Shock the spa once a week or as needed. Additional shocking may be required if the spa is under heavy use. This is often the case when the spa is new.
- The Pool Frog Mineral Reservoir must be replaced every 4 months. After four months of use or when draining and refilling the spa with fresh water, discard Pool Frog Mineral Reservoir 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 spa.

{Set for 4 mos.}

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{Frog Mineral {System} {Technology} {Formula}+ improves swimming pool pleasure by reducing the problems associated with chlorine. Experience the FROG difference:

- Less work with no daily dosing of minerals or chlorine.
- Sparkling water for above ground and in ground pools.
- Pre-filled pacs eliminate fumes typical of chlorine buckets.
- Reduces Fading Swimsuits
- Lower chlorine levels help prevent damage to equipment and surfaces.

Let Us Dissect This Frog For You

A Mineral {Sanitizing} {Disinfecting} System With 3-Parts

- Frog Cycler holds the Mineral Reservoir and chlorine Bac Pac
- Pool Frog Mineral Reservoir contains the minerals
- Frog chlorine Bac Pac (sold separately EPA Reg. No. 53735-2) provides low chlorine support.

Here's How It Works

- The Frog System destroys bacteria
- The Frog Mineral System reduces chlorine use up to 50% compared to the minimum EPA recommended chlorine level of 1.0 ppm for a stabilized swimming pool.
- When using the chlorine Bac Pac water flows through minerals and chlorine so one unit does all.

Frog is more fun

Up To 50%\* Chlorine Reduction with Pool Frog Mineral System

FROG's Complete Pool Care System includes:

1. Pool Frog Mineral Reservoir
  - Fits inside the Frog Cycler
  - Contains minerals that help to {control} {destroy} bacteria
  - Replace mineral reservoir every season – do not use more than 6 consecutive months.
2. Chlorine Bac Pac (sold separately – EPA Reg. No. 53735-2)
  - Pre-filled with Trichlor (chlorine) tablets.
  - Sits inside the Pool Frog Mineral Reservoir for a complete system
  - Set the Cycler dial for achieving at least 0.5 ppm chlorine level (see instruction manual)
  - Replace chlorine Bac Pac when empty
3. Frog BAM Algae Preventative (sold separately – EPA Reg. No. 53735-9)
  - Algae Protection Guarantee when used with the Complete Frog System
  - Dispenses in 90 minutes and provides 90 days of algae protection}

There's a Frog For You!

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Frog Copy by Category:

1. Less Work

- Less work with a 6 month Mineral Reservoir and pre-filled chlorine Bac Pac.
- Less work with pre-filled disposable cartridges.
- No more daily maintenance with replacement products that last weeks or months at a time.
- Take back the fun of your pool by reducing the work and increasing the pool's life.
- Frog offers more fun! Let Frog do the work for you.
- Relaxation and peace of mind.
- Set the Cyclor valve and it dispenses minerals and chlorine automatically.
- Automatic dispensing of minerals and {chlorine} {bromine} – Automatic pool care.

2. Less {Chlorine} {Bromine}

- Frog is a mineral system with a pre-filled chlorine pac that meets the EPA requirements to lower previously approved safe chlorine levels by up to 50%.\* (\*1.0 ppm was EPA's previously approved safe level for a stabilized swimming pool).[for pools]
- Pool Frog Mineral Reservoir is a mineral system using a pre-filled bromine cartridge that meets the EPA requirements to lower previously approved safe bromine levels by up to 50%.\* [for spas]
- With standard chlorine products for swimming pools, EPA has NOT approved a chlorine level of 0.5 ppm without using minerals.
- With standard bromine {or chlorine} products for spas and hot tubs, EPA has NOT approved a bromine {or chlorine} level of 1.0 ppm without using minerals.
- The Frog Mineral {System} {Technology} {Formula}+ destroys bacteria so less {chlorine} {bromine} is needed for complete {pool} {spa} care.
- Minerals help destroy bacteria so less {bromine} {or chlorine} is needed for complete spa care.
- Lowers {chlorine} {bromine} {usage} {use}
- Reduces {chlorine} {bromine} consumption
- Frog Mineral {System} {Technology} {Formula}+ reduces the formation of chloramines and odors.
- Frog Mineral {System} {Technology} {Formula}+ reduces chloramines and its effects.

3. Water Quality

- Pool Frog's minerals make a difference you can see and feel.
- Water feels softer with a crystal clear shine.
- For softer water with a crystal clear shine.
- Frog minerals condition the water for extra softness.
- Frog Mineral {System} {Technology} {Formula}+ reduces the problems associated with {chlorine} {bromine} like {faded} {fading} swimsuits.
- Lower chlorine levels help prevent damage to equipment and surfaces.
- Spend the day in the {pool} {spa} without worrying about faded swimsuits.
- Pool Frog gives you a reliable way to have fresh, clean, clear water in your family's {pool} {spa}.
- With Pool Frog Mineral Reservoir your spa will have the feel of a hot spring in the Rocky Mountains cascading over your tired limbs and soothing muscles.

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[All text on this page optional]

- Pool Frog Mineral Reservoir transforms your spa into the perfect environment for soothing relaxation.
- The perfect spa environment.
- Makes water brilliantly clear {and soft}
- Restores water clarity
- Frog Mineral {System} {Technology} {Formula}+ conditions water for extra softness

#### 4. How Frog Mineral {System} {Technology} {Formula}+ Works

- Frog Mineral {System} {Technology} {Formula}+ helps rid the water of harmful bacteria.
- Frog's patented mineral {System} {Technology} {Formula}+ destroys bacteria with a controlled release formula that lasts {6} {4} months.
- Frog minerals also help keep your pH balanced by acting as a neutralizer.
- Complete mineral pool care works in all pools.
- Complete mineral spa care works in all spas\*. (\*Any spa can take advantage of a complete system including the Pool Frog Mineral Reservoir used with the Spa Frog Bromine Cartridge.)
- Improves water quality by:
  - Helping to maintain a neutral pH for softer water.
- Let Frog Mineral {System} {Technology} {Formula}+ handle the bulk of your water {sanitation} {disinfection} {disinfecting} needs.
- 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 spas]
- Pool Frog Mineral Reservoir works together with very low levels of {bromine} {or chlorine} to control bacteria, condition the water and help neutralize pH.
- The Frog Mineral {System} {Technology} {Formula}+ provides silver to help destroy bacteria and carbonate to help keep the pH in an acceptable range without monitoring.
- The Frog Mineral {System} {Technology} {Formula}+ contains silver to help destroy bacteria and carbonate to help keep the pH in an acceptable range without monitoring.
- Silver helps destroys bacteria to reduce chlorine use up to 50%\*
- ~~Frog Mineral {System} {Technology} {Formula}+ contains minerals from nature~~
- ~~Frog Mineral {System} {Technology} {Formula}+ contains silver from~~

#### 5. How To Use

- Just set it and forget it for weeks at a time.
- Maintain at least 0.5 ppm of chlorine.
- Mark your calendar with enclosed reminder stickers for the 6 month replacement date.
- Replace the Mineral Reservoir every six months or once a season.
- Replace the chlorine Bac Pac when empty – usually every 1-3 weeks.
- Replace the 7 pound chlorine Pac for Pool Frog XL Pro when empty – usually every 3-4 weeks.

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Frog now comes with water polishers for easier pool start up.  
Pool Frog Mineral Reservoir now with Start-up Water Polishers for easier start up.  
Now with Start-Up Water Polishers  
Now with 25% more water polishers {than the original mineral reservoir}  
{Now with} 25% greater clarifying power {than the original mineral reservoir}  
Now more water polishers {than the original mineral reservoir}  
Now more start up water polishers {than the original mineral reservoir}  
New and improved with additional water polishers  
Now pool start-up just got clearer  
Start your Frog pool with clearer water this season  
Insanely Cool Pool Care  
Patented Get Down™ Pool Care Technology  
Patented Get Down Mineral™ Pool Care Technology  
Get Down Mineral Technology  
Get Down Mineral Pool and Spa Care Technology  
Get Down Mineral Pool Care Technology  
Get Down Pool and Spa Care Technology  
Get Down Pool Care Technology  
Get Down

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[The following text may or may not appear on an insert inside packaging]

Important – Remove and Read

Less Chlorine with {Bac Pac} {Pool Frog Mineral {System} {Technology} {Formula}+.

To assure a 50%\* chlorine reduction use this Pool Frog Mineral Reservoir with {a} {the appropriate} {chlorine} {Bac} Pac {for your system}. See setting chart in manual for the proper control dial setting.

Operation without {chlorine} {Bac} Pac.

If using {Pool Frog Mineral Reservoir} with an alternative source of chlorine leave the center of the Pool Frog Mineral Reservoir empty and set the Pool Frog control dial to {Maximum} Setting {10} {5} or {On} depending on your Pool Frog System. {No adjustments necessary.}

Frog Brand Test Strips

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

Warning

Do not put anything in the center of the Pool Frog Mineral Reservoir other than {a factory recommended Bac Pac or Frog Bam 90-Day Algae Preventative} {the appropriate Frog product as directed in the product instructions}. {Do not use any other pac or bulk chemical tablets in the Pool Frog Mineral Reservoir. Use of any other products could result in damage to pool equipment or surface, unsafe pool conditions, fire or explosion. Warranty will be void if the correct Pool Frog Mineral Reservoir, Frog Bam and Bac Pac are not used.}  
Damage could result to the pool or equipment and warranty will be null and void.

[Other Optional Text]

Free Frog Bam Offer Inside - \$XX.XX Value

Special Offer Inside

See Inside for Special Offer

Above Ground Series {4500} or {5100} {6100} {6500} {6700} {xxxx} (Order #xx-xx-xxxx) for use in Model

Now 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

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

35/46

5472

Series 6100 or xxxx (xx-xx-xxxx) 01-12-6152

Series 6500 or xxxx (xx-xx-xxxx) 01-12-6152

For use with Aqua Smarte Models 5700 and 6700 or xxxx

Contents;

# Pool Frog Mineral Reservoirs

# Pool Frog Bac Pacs

Free Frog Test Strips (\$\$ Value)

\$\$ Mail-in Coupon for this purchase

\$\$ Mail-in Coupon for Frog Test Strips

\$\$ Mail-in Coupon for Frog BAM

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**[Additional Copy for Skimmer Application packaging and labeling]**

{Frog Mineral {System} {Technology} {Formula}+ improves swimming pool pleasure by reducing the problems associated with chlorine. Experience the FROG Difference:

- Less work with no daily dosing of minerals or chlorine.
- Sparkling water for in ground pools.
- Reduces Fading Swimsuits
- Lower chlorine levels help prevent damage to equipment and surfaces.}

{Set reminder dial to the six month replacement date.}

{Drops in Skimmer!}

{Don't close your eyes to the perfect pool.}

{The Perfect Pool Begins With Pool Frog Mineral Reservoir}

- {Lasts a full six months with a handy reminder dial
- Shroud prevents clogging and acts as a handle
- Water flows in the snorkel and openings on top and sides
- Water flows out the bottom dispensing low levels of minerals into the pool}

**[Additional Copy for Pool Cartridge used in Floating System packaging and labeling]**

- FROG Splash – The Perfect Choice for Splasher Pools
- Splash Into Summer With Pool Care From FROG
- Small pools still need proper care – make it a snap with FROG Splash
- Make sure your pool is properly treated – use FROG Splash
- Before you Splash, use FROG Splash!
- FROG Splash makes pool care a snap with 3 Easy steps:
  1. Set the cartridges according to the instructions for each
  2. Snap them into the floating holder and place in water
  3. Replace cartridges when directed (see instructions inside)
- Before your family goes for a splash – make sure the water is treated with FROG Splash.
- All pools require a method for controlling bacteria growth – even small above ground pools!
- Frog Splash contains minerals that help destroy bacteria and reduce chlorine use up to 50%.
- For use in the Frog Splash System
- Especially important for little people in little pools that create a big breeding place for bacteria.
- EPA registered and patented minerals help inhibit bacterial growth when used in conjunction with reduced levels of chlorine.
- FROG Splash allows your family to splash with a smile.
- Free floats in the pool.
- Set upside down outside the pool while in use. Remember to replace when finished using the pool.

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in EPA Reg. No. 53735-11  
MAR 24 2011

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[All text on this page is confidential]

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Now Spa Care with Less Work  
Mineral and Bromine {or Chlorine} Spa Care

Works in all spas  
Reduces bromine {or chlorine} use up to 50%\*  
Cuts bromine {or chlorine} use up to 50%\*

Relax - Frog's on-the Job  
Reusable Holder  
Replacement Cartridges

Register your Pool Frog Mineral Reservoir at [Kingtechnology.com](http://Kingtechnology.com)  
Put(s) the AAAHH in Your Spa  
Frog Mineral and Bromine {or Chlorine} Spa Care

For Use in the In-Line System  
For Use in Spa Floater or Installed In-Line System  
For use in the Automatic In-Line System Only

In-Line System Only  
In-Line System, Bromine Cartridge, Mineral Cartridge, Spa Floater  
Easy top-loading of cartridges

Ask your dealer if your spa came with an In-Line System  
Ask for the 200 gram Bromine Cartridge for longer life  
See side panel for in-line details

Less bromine {or chlorine}-with minerals helping to control bacteria  
Less work with no daily dosing of minerals or bromine {or chlorine}  
Less work with pre-filled disposable cartridges

Reduces maintenance with pre-filled adjustable cartridges  
Less maintenance - Cuts Maintenance Time  
Relaxation and peace of mind

For use in the Floating System  
Floating System, Floating Holder  
Cartridges are easy to snap in and out when replacing  
Floats in Any Spa, Works in all spas

Soft skin

Pleasant feeling skin  
Soft skin through neutral pH  
Silky smooth feeling  
Silky smooth feeling skin  
Soft water  
Soft water resulting in silky smooth feeling skin  
Soft feeling water that's easier on your skin  
Silky smooth feeling water  
Silky feeling water that comes from water softness  
Helps maintain a neutral pH to provide silky water and smooth skin  
Using less bromine {or chlorine} helps reduce odors

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[All Text on this page is optional]

Reduces Odors

Setting Window

Cartridge Kit for Automatic Spa Care

Contains: 1 Mineral Cartridge - Lasts 4 Months  
3 Bromine Cartridges - Each Lasts 2-4 Weeks  
200 grams each - Lasts 3-5 weeks

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in EPA Letter Patent  
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Just follow the easy guidelines below:

1. Fill spa with fresh water and bring spa to recommended temperature.
2. Balance the water's pH and total alkalinity and shock the spa to establish a bromine or chlorine residual of 1.0-2.0 ppm {using the spa start-up shock packet}.
3. Adjust your cartridges:
  - a. For the blue mineral cartridge - set wide open on Setting #6.
  - b. For the yellow bromine cartridge - set the cartridge to #5 for the first 24 hours ONLY. Then adjust down to maintain a low 1.0-2.0 ppm of bromine. That's up to 50%\* less bromine than standard spas require.
4. Insert cartridges into floating holder openings.
5. Let the Floating System free-float in your spa. When using the spa, simply lift up the Floating System, drain most of the water and set on the side of the spa inverted so all excess water drains into the holder. Return to spa when finished using.
6. Replace your cartridges:
  - a. For the yellow bromine cartridge - replace when empty. The cartridge life will vary. Once your usage is determined, mark the calendar with enclosed replacement reminder stickers.
  - b. For the blue mineral cartridge - replace every 4 months or when draining and refilling the spa with fresh water.
7. Shock the spa with a non-chlorine or chlorine shock once a week or more often if the spa is heavily used.

Replace Bromine Cartridge every 2-4 weeks. Bromine usage varies depending on spa size and number of spa users.

Mineral Cartridge must be replaced every 4 months. NOTE: You may still feel the "spent" minerals inside, but they are no longer effective and need to be replaced. Simply discard in trash.

See inside label for directions for use and disposal instructions.

Just follow the easy guidelines in the enclosed manual and the following helpful tips:

**VERY IMPORTANT!** Before using cartridges, establish a bromine or chlorine residual of 1.0-2.0 ppm {with granular Brominating Concentrate™ or a chlorine shock} {spa start-up shock packet}. (See instruction manual.)

Brominating Concentrate™ is a registered trademark of Bio-Lab, a Chemtura Company.

Cartridges are easy to snap in and out when replacing.

If desired, invert and set on side of spa when spa is in use.

Mark you calendar with enclosed replacement reminder stickers.

Experience the shape of Frog water testing with free Frog Brand Test Strips inside.

Now its easier to maintain the low 1.0 ppm bromine level with Frog Brand Test Strips. See inside for details.

Start-up is easier with the spa start-up shock packet with its {effervescent} {fizzing} action that shows it's working. See inside for details.

Free spa start-up shock packet inside!

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[The following rebate copy may or may not appear on packaging. All text is optional]

Free Cartridge Rebate

Free Bromine Cartridge Rebate - \$##.## Value

\$##.## Rebate with the purchase of Frog Test Strips

Purchase must include 1 Frog Test Strips (50 ct) from any participating store.

FROG Test Strips \$##.## Rebate

Free Frog Test Strips Inside

See side panel for \$##.## Rebate on New Frog Test Strips

Save \$##.## when you try the complete Spa Frog Floating System

Get \$##.## back when you purchase a Spa Frog Floating System for mineral and bromine spa care that keeps water clean and crystal clear.

Receive a Free Spa Frog Bromine Cartridge with purchase of this kit.

How: Purchase from any participating Frog retailer (no on-line sales). See [www.kingtechnology](http://www.kingtechnology) for a retailer in your area. Send completed coupon below with original sales receipt and original UPC bar code (no copies or facsimiles) showing the purchase of {product name} to King Technology {name of rebate} {submittal address}.

When: All entries must be postmarked {within 30 days of purchase.} {no later than} {and offer expires} {date}.

Important: This is a mail in rebate only. This is NOT {valid in store} an in-store rebate. Limit: one {name of rebate} rebate per household. Read all terms and conditions carefully. This is a one time offer.

See details on back.

[Rebate form has the following:]

Full Name, Address, City, State, Zip, Phone, e-mail.

{I am using these cartridges in the (check one)}

- In-Line System (built into the spa) that came installed on my spa.
- Floating System (floats in the spa)}

{I am using FROG Test Strips with the (check one)}

- Pool Frog Above Ground System
- Pool Frog In Ground System
- Spa Frog Floating System
- Spa Frog In-Line System}

{Caldera Spas Dealer

Dealer Address}

Spa Brand

You must attach proof of purchase.

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This rebate is intended for the end user consumer only; and may not be used with any other coupon or offer. Limit: one rebate per household. This offer is product specific; substitutions will not be honored. Product must be purchased from a U.S. retailer (no on-line sales) and consumer must reside within the continental United States. Theft, diversion, reproduction, transfer, sale or purchase of this offer form is prohibited and will void rebate. Submissions from P.O. boxes will not be honored. If your primary address is a P.O. box, see your local Post Office for a street address. Submissions from groups or organizations will not be honored or acknowledged. Names and addresses may be verified. Use of fictitious names or addresses could result in federal claims of mail fraud. Offer void where restricted or prohibited by law. King Technology is not responsible for late, lost, mutilated, illegible, misdirected or postage due requests. King Technology reserves the right to rescind this offer. This offer may not be reprinted without the express written consent of King Technology. Please allow 6-8 weeks for delivery of rebate check.

How To Use: [Simple Instructions for spa cartridge used in Floating System]

- Simply snap out and snap in the pre-filled mineral cartridge.
- Set reminder dial to the four month replacement date.
- For the blue Pool Frog Mineral Reservoir – set wide open on setting #6.
- Insert cartridge into floating holder openings.
- Easy top loading access makes it a snap to replace the mineral cartridge in the holder.
- No assembly required.
- By dropping it inside your filter cartridge, filter well or skimmer, Pool Frog Mineral Reservoir works with no electricity and no hassles for four full months.
- Set it and forget it for up to 4 months.

Other Copy

- Simple spa care
- Insanely Cool Spa Care
- Patented Get Down™ Spa Care Technology
- Patented Get Down Mineral™ Spa Care Technology
- Get Down Mineral Technology
- Get Down Mineral Pool and Spa Care Technology
- Get Down Mineral Spa Care Technology
- Get Down Pool and Spa Care Technology
- Get Down Spa Care Technology
- Get Down
- Reduces sanitizer demand
- For bromine & chlorine
- Safe for all spas
- Enjoy softer, cleaner water
- Enjoy clearer, cleaner spa water with the help of minerals
- Contains minerals that help to control bacteria while reducing sanitizer demand
- When combined with proven chemistry, you'll experience spa water that is clearer, cleaner and softer to the touch
- Works with bromine and chlorine
- Fits most filters
- Simple installation
- One-piece design
- Compatible with non-chlorine shock
- Installation is easy
- Insert into filter cartridge, in filter well or in skimmer.
- Lower your chlorine or bromine level to 1.0 ppm
- Replace at least every 4 months or when draining and refilling spa.
- After that time, even if upon shaking, you hear the spent media inside, it is no longer effective and must be replaced.
- Product is effective up to 4 consecutive months or when draining and refilling the spa.
- After following the simple spa care start-up program located in the back of your spa care guide, it's time to add the Pool Frog Mineral Reservoir.
- Test pH, Total Alkalinity, chlorine/bromine levels regularly with test strips. Shock after each use or at least once a week with chlorine or non-chlorine shocks.
- It is normal for a small amount of granules and dust to become dislodged from the mineral cartridge during shipment.

ACQUA FROG  
with COMBINATION  
FUNGICIDE AND  
MAR 24 2011

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- For use only with Softub.
- This product to be used only with Softub
- See your Softub manual for complete operating instructions
- Patented Mineral Spa {Sanitizer} {Disinfectant}.
- Mineral Spa Care is developed with technology from Frog
- Fits Caldera Spas

Frog's Got Your Back with:

- Strong consumer benefits
- No price increase on Spa Frog products
- Free POP materials
- No price increases on Mineral Reservoirs and steps to grow your business
- By absorbing the high cost of chlorine to help protect you and your customers
- Pool Frog programs
- Spa Frog programs
- Tools to grow your business
- Strong profits
- EPA registered minerals

Minerals make all the difference {for pools} {for spas}

Consumers want to make a difference.

Get Down chlorine or bromine use up to 50%\* {which exceeds consumer expectations}

Get Down work {maintenance time} {for more fun and relaxation}

Get Down problems like faded swimsuits

Get Down long term damage to pool surfaces and equipment

Minerals utilize the Frog Get Down Mineral Technology

The Get Down Mineral Technology for spas means up to 50% less bromine use\* with all the same "Get Down" benefits of less work, preventing skin irritation and easier on the spa surface.

Copy on rebate coupons

Frog \$###.## Value with X# mail in coupons {and free Frog Test Strips (\$###.## value)}

Now a clear way to see the Frog mineral value

For use with Pool Frog and Spa Frog products

Designed for low chlorine or bromine measuring down to 0.5 ppm

~~Offers an algae protection guarantee when dispensed through the Pool Frog System.~~

One bottle handles pools up to 15,000 gallons for 90 days. Two bottles handle pools from 15,000 to 30,000 gallons for 90 days.

Purchase MUST include 1 Frog Bam from any participating store.

Pack contains 6 Bac Pacs and 1 Mineral Reservoir.

Minerals cut chlorine use up to 50%

Pool Frog offers more fun with less work.

Purchase MUST include 1 Mineral Reservoir and 6 Bac Pacs from any participating store

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King Technology: Pool Frog Mineral Reservoir EPA Reg. No. 53735-11

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[All text on this page is optional]

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Easy Installation. No Assembly Required.

Let us Dissect This Frog For You

- Openings in cap for additional water flow
- Reminder dial for replacing every 4 months
- Scooped louvers draw water in and through minerals inside
- Bottom louvers allow clean water out
- Welded rod helps prevent breakage

Pool Frog Mineral Reservoir works together with very low levels of bromine or chlorine to control bacteria, condition the water and help neutralize pH.

Now easier to install

- Set reminder dial to the four month replacement date
- Insert Pool Frog Mineral Reservoir into filter cartridge, in filter well or in skimmer
- Lower your bromine or chlorine levels to as low as 1.0 ppm\*
- Replace Pool Frog Mineral Reservoir every 4 months or when draining and refilling spa

Reminder Dial for ease-to-remember 4 month replacement  
Set for 4 mos.

Minerals offer

Frog Offers More Relaxation

- Simply a more enjoyable spa experience
- Permanent rod fits almost all spas
- Welded rod helps prevent breakage
- Inserts easily into filter
- Also works in most skimmers or filter wells

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Frog Mineral Systems Work Wonders {One-der} {1-der}  
Frog is {the one} {a wonder}  
Wonders {One-der} {1-der} {The one} for your water  
Wonders {One-der} {1-der} {The one} for your workload  
Wonders {One-der} {1-der} {The one} for you wallet

Adopt a Frog for worry free water  
Take Frog home and experience softer water with a crystal clear shine  
Make Frog a part of your family  
When Frog's a part of your family you relax and enjoy your {pool} {spa} more  
Let Frog keep your family happy with crystal clear water that takes less time to maintain  
Frog does the work so you can enjoy more time with your family  
When you adopt a Frog you adopt more than a technology. You adopt a ~~better~~, easier, more fun {pool} {spa} environment.  
Send in your adoption (warranty) card today!

Frog-tastic Water – Frogtastic Fun!  
Frog minerals reduce {chlorine} {bromine} use up to 50% for Frog-tastic water  
Frog-tastic water means softness that's easier on your skin, less odors and a crystal clear shine.  
Frog-tastic fun means less work with long lasting prefilled replacements and less pH monitoring.

Frog-friendly  
Frog-ability  
Frog-simple  
Frog-mineral  
Frog-complete  
Frog-itude  
Frog-attitude  
Frog-support

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Hybrid water care that's fun and easy  
Hybrid water care that's Frog-tastic  
Hybrid water care that's Frog-tastically fun

With hybrid water care, minerals reduce {chlorine} {bromine} use while maintaining a clean, clear {pool} {spa}  
The 2 in 1 water care system that reduces {chlorine} {bromine} use up to 50%  
In Frog's Hybrid System, minerals do a lot of the work so you need less {chlorine} {bromine}

Frog minerals {make it possible to} reduce {chlorine} {bromine} use like hybrid cars {make it possible to} reduce gas  
Frog minerals with less {chlorine} {bromine} make {pool} {spa} care a snap so you work less and have more fun

Frog knows water – Frog knows fun  
The mineral system experts  
Frog – the water experts  
Frog – the mineral system experts  
Frog is an expert at clean clear water with 50% less {chlorine} {bromine} and less work  
Frog knows you want to keep your water clean and clear and your life easy  
Frog knows how to do the job so you work less and enjoy your pool, spa more

Enjoy a Frog water environment  
Clean clear water without the work and worry just as Frog intended  
Just as Frog intended  
Frogs need {want} {like} {thrive in} clean water – so do pools and spas  
Let Frog turn your {pool} {spa} into a water oasis  
Frog minerals reduce {chlorine} {bromine} use up to 50% to turn your {pool} {spa} into a water oasis.

Mineral System{s}  
Mineral Hybrid System{s}  
Mineral Water Care System{s}  
Mineral Hybrid Water Care System{s}

Frog simple  
Great water care made Frog simple  
Less {chlorine} {bromine} through minerals  
Frog it and leave it  
Frog... in control  
Frog... cruise control for your {pool} {spa}

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Make your chlorine {bromine} last twice {2X} {two times} as long as {longer than} traditional {normal} {standard} pools {spas} with Frog minerals and only 0.5 ppm {1.0 ppm} chlorine {bromine} levels.

Maintaining 0.5 ppm {1.0 ppm}, chlorine {bromine} lasts twice {2X} {two times} as long {longer} with Frog over traditional {normal} {standard} pool {spa} care methods.

Maintaining 0.5 ppm {1.0 ppm} rather than the standard 1.0 ppm {2.0 ppm}, chlorine {bromine} lasts twice {2X} {two times} as long {longer} with FROG.

Compared to the traditional {normal} {standard} {minimum recommended} chlorine level for pools, FROG minerals make chlorine last twice {2X} {two times} as long {longer}.

Frog Minerals double the life of your chlorine {bromine} over pools {spas} on chlorine {bromine} alone.

With Frog Minerals, chlorine {bromine} lasts twice {2X} {two times} as long {longer} than pools {spas} on chlorine {bromine} alone.

With Frog Mineral Systems you can go twice {2X} {two times} as long {longer} between chlorine {bromine} changes compared to pools {spas} on chlorine {bromine} alone.

With Frog in, you can get twice {2X} {two times} the life out of your chlorine {bromine} than {traditional} {normal} {standard} pools {spas} at higher chlorine {bromine} levels.

Frog uses only half the chlorine {bromine} of {traditional} {normal} {standard} pool {spa} care methods.

The Frog Mineral System allows your chlorine {bromine} {chlorine or bromine} to last {twice} {2X} {two times} {as long} {longer} as {traditional} {normal} {standard} {minimum recommended} levels.

The Frog Mineral System allows one-half the chlorine {bromine} {chlorine or bromine} to be used compared to {industry standards} {{traditional} {normal} {standard} pool care methods}.

[All text on this page is optional]

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Put Frog in, take half the chlorine {bromine} out that {traditional} {normal} {standard} pools {spas} maintain.

With Frog minerals cutting chlorine {bromine} use by 50%, that means your chlorine {bromine} lasts twice {2X} {two times} as long {longer}!

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

The 2 in 1 {two in one} water care system that helps chlorine {bromine} last twice {2X} {two times} as long {longer}.

Frog provides the 1-2 {one-two} punch: {minerals and 50% less chlorine} {with chlorine that lasts twice {2X} {two times} as long {longer}}.

Minerals and 0.5 ppm chlorine {destroys} {kills} bacteria allowing you to use up to 50% less chlorine.

Minerals and 1.0 ppm bromine {destroys} {kills} bacteria allowing you to use up to 50% less bromine.

Using minerals and up to 50% less chlorine {bromine} means {savings to you} {less work and more savings}.

Minerals and 0.5 ppm chlorine {1.0 ppm bromine} is all you need. Otherwise you use twice {2X} {two times} of what you don't want - chlorine {bromine}!

With Frog Mineral Systems, chlorine lasts twice {2X} {two times} as long as {longer than} the industry standards {{traditional} {normal} {standard} {minimum recommended} {higher} levels.} {the standard 1.0-3.0 ppm chlorine level.} {{traditional} {normal} {standard} pools.}

With Frog Mineral Systems, bromine lasts twice {2X} {two times} as long as {longer than} the industry standards {{traditional} {normal} {standard} {minimum recommended} {higher} levels.} {the standard 2.0-4.0 ppm bromine level.} {{traditional} {normal} {standard} spas.}

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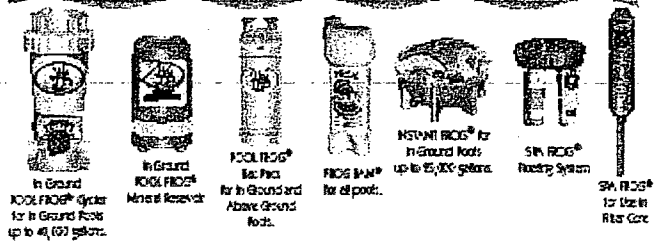
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**[Pool Frog Mineral Reservoir – Family of Products]**  
**[All information on this page is optional]**

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**THERE'S A FROG® FOR YOU!**



In Ground  
POOL FROG® Reservoir  
for In Ground Pools  
up to 40,000 gallons.

In Ground  
POOL FROG®  
Mineral Reservoir  
for In Ground and  
Above Ground  
Pools.

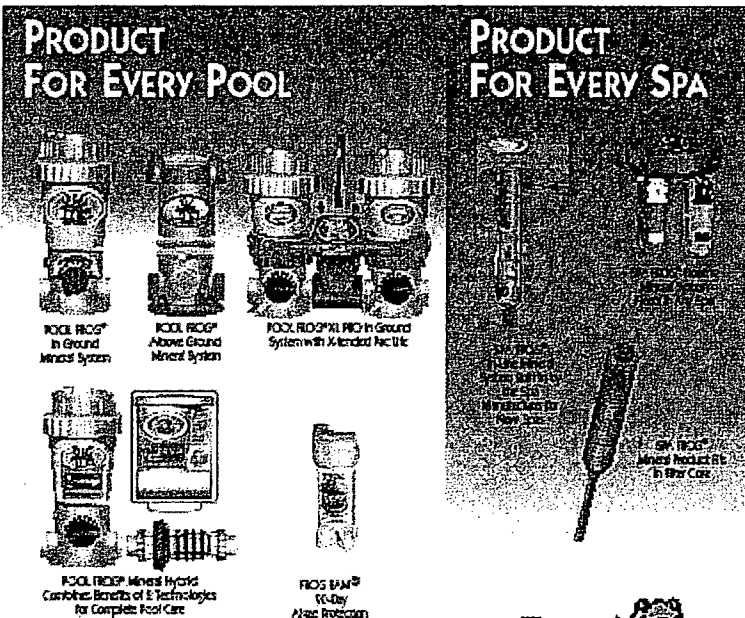
POOL FROG®  
1000  
for In Ground and  
Above Ground  
Pools.

POOL FROG®  
1000  
for all pools.

INSTANT FROG® for  
In Ground Pools  
up to 15,000 gallons.

POOL FROG®  
1000  
Reservoir System

POOL FROG®  
1000  
for Use in  
Riser Cane



Manufactured in the U.S.A. by KING TECHNOLOGY, INC.  
 530 11th Ave. So., Hopkins, MN 55343  
 800-222-0169 • www.kingtechnology.com



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