



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



# Pool Frog Mineral Reservoir

**Patented Mineral Pool Disinfectant  
Operational Instructions**



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

## Step 1: Preparing the Pool



**1.** Make sure the pool has adequate circulation. The total volume of pool water must completely circulate through the pump and filter at least 1 to 2 times per day. This usually requires 8 to 12 hours of circulation. Check with your dealer for the proper circulation time for your pool.



**2.** Check the pool's filter gauge often and periodically clean the filter per the manufacturer's directions. A dirty filter will slow the flow of water which could hamper proper circulation.

**3.** Check the Total Hardness of your fill water before adding to the pool. If using source water that is high in iron or other metals, see your dealer before filling or topping off the pool. It may require the use of a metal control product.



**4.** Before beginning with any pool care program, you must first balance your pool water. At spring start-up always circulate the water for at least 24 hours before testing it. Take a water sample to your local pool professional or use a complete test kit that will test for the important Water Balance Guidelines.

Our recommendation for achieving water balance, is to follow steps **4a through 4e** in order.

**IMPORTANT:** Always follow printed instructions on the balancing chemical packages. Add balancing chemicals in small increments one at a time with circulation running and wait 8-12 hours before testing again and adding any additional balancing chemicals.

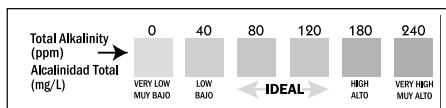
### Water Balance Guidelines

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

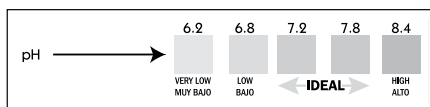
**4a.** Take a water sample from the pool and dip a FROG® Test Strip into it.



**4b.** Look at the **Total Alkalinity** reading first. Adjustments should be made to bring the Total Alkalinity in the range of **80 – 120 ppm** prior to making any adjustments to pH even if it throws pH off further.



**4c.** After Total Alkalinity is in range, test for **pH**. It should be between **7.2 and 7.8**. If higher or lower, add a pH adjuster.



**4d.** Then test your **Total Hardness** again. It should be between 200 and 400 ppm. If lower, add Hardness Increaser.

**4e.** Lastly test for **Stabilizer** or **Conditioner** levels. Add Conditioner if the level is below 20 ppm. This will prevent chlorine burn off. If stabilizer level is above 80 ppm, partially drain water and re-fill.

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

**5.** If you haven't already added a shock during balancing, shock the pool with an EPA registered chlorine shock to rid the water of contaminants and establish a chlorine residual. Follow the manufacturer's directions carefully.

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



### IMPORTANT

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

## Step 2: Putting the System to Work



Pool FROG Cyclor 6100



Pool FROG Cyclor 5400



Pool FROG XL PRO®  
Mineral Cyclor



Pool FROG XL PRO®  
Chlorine Cyclor

**1.** Install a Pool FROG Mineral Reservoir into the Pool FROG Cyclor. (See page 3 for directions.)

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

After that time you will hear the spent media inside, however it is no longer effective and must be replaced.

## Step 2: Putting the System to Work (continued)

**2.** Replace cap and run Pool FROG Cyclor, with Pool FROG Mineral Reservoir inserted, for 10 minutes on the highest setting.



**3.** For a 90-Day Algae Protection Guarantee insert FROG BAM® into Pool FROG Mineral Reservoir in Pool FROG Cyclor or Mineral Cyclor. (See page 3 for directions.)



Pool FROG Cyclor 6100



Pool FROG Cyclor 5400

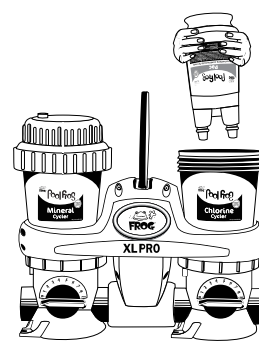
**4.** When chlorine reading is down to 1.0 ppm, which may take a few days, insert Pool FROG Bac Pac® or Pool FROG Pac. (See page 4 for directions.)



Pool FROG Cyclor 6100



Pool FROG Cyclor 5400



Pool FROG XL Pro Mineral Cyclor

Pool FROG XL Pro Chlorine Cyclor

## Step 3: Setting the Control Dial

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

**1.** Set control dial by matching up the parameters of your pool on the charts below. **THIS IS A STARTING POINT ONLY** and may need to be adjusted to fit your individual pool needs. See #2 for directions.



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

^ – Bypass installation recommended.  
NR – This pump size is not recommended for this size pool.

Using Model 6100		SINGLE SPEED PUMP OR HIGH SPEED PUMP RUN TIME											
		8 HOUR PUMP RUN TIME				12 HOUR PUMP RUN TIME				24 HOUR PUMP RUN TIME			
		PUMP SIZE				PUMP SIZE				PUMP SIZE			
Gallons	Diameter	1/2 hp	3/4 hp	1 hp	1½ hp	1/2 hp	3/4 hp	1 hp	1½ hp	1/2 hp	3/4 hp	1 hp	1½ hp
7,000	(18')	5.0	4.5	4.0	3.5	4.5	4.0	3.0	5.0^	3.5	3.0	2.5	4.0^
9,000	(21')	5.5	5.0	4.5	4.0	5.0	4.5	4.0	5.5^	4.0	3.5	3.0	4.5^
12,000	(24')	6.0	5.5	5.0	4.5	5.5	5.0	4.5	4.0	4.5	4.0	3.5	5.0^
15,000		NR	6.0	5.5	5.0	6.0	5.5	5.0	4.5	5.0	4.5	4.0	3.5
20,000		NR	NR	6.0	5.5	NR	6.0	5.5	5.0	5.5	5.0	4.5	4.0

Using Model 5400		SINGLE SPEED PUMP OR HIGH SPEED PUMP RUN TIME											
		6 HOUR PUMP RUN TIME				12 HOUR PUMP RUN TIME				24 HOUR PUMP RUN TIME			
		PUMP SIZE				PUMP SIZE				PUMP SIZE			
Gallons		3/4 hp	1 hp	1½ hp	2 hp	3/4 hp	1 hp	1½ hp	2 hp	3/4 hp	1 hp	1½ hp	2 hp
7,000		4.0	3.5	3.0	3.0^	3.0	2.5	4.0^	3.5^	1.5	3.5^	3.0^	2.5^
9,000		4.5	4.0	3.5	3.0	3.5	3.0	2.5	4.0^	2.5	4.0^	3.5^	3.0^
12,000		5.0	4.5	4.0	3.5	4.0	3.5	3.0	2.5	3.0	2.5	1.5	3.5^
18,000		NR	5.0	4.5	4.0	5.0	4.0	3.5	3.0	3.5	3.0	2.5	2.0
25,000		NR	NR	5.0	4.0	NR	5.0	4.0	3.5	4.0	3.5	3.0	2.5
30,000		NR	NR	6.0	5.0	NR	5.5	5.0	4.0	4.5	4.0	3.5	3.0
35,000		NR	NR	7.0	6.0	NR	6.5	5.5	5.0	5.5	4.5	4.0	3.5
40,000		NR	NR	NR	7.0	NR	NR	6.5	5.5	6.5	5.5	4.5	4.0

### 24 HOUR, LOW SPEED PUMP RUN TIME

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



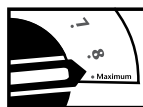
**2.** For the first week test the pool water daily for free chlorine with FROG Test Strips to ensure correct dial setting. Continue to test weekly throughout the season.



After testing, adjust the dial up by 1/2 increment if the free chlorine reading has dropped below 0.5 ppm or down by 1/2 increment if the reading has risen above 1.0 ppm. Continue this process each day until the color on the test strip matches the ideal FROG range of 0.5 ppm to 1.0 ppm chlorine.

Remember to adjust dial by 1/2 increments only, in order to prevent over chlorination which may bleach pool surfaces.

**If using another means of chlorine set the Pool FROG Cyclor to the highest setting. Maintain a minimum chlorine reading of 0.5 ppm with a chlorine delivery device or hand feeding.**



## Step 4: Routine Pool Care



**1.** Run filtration system enough hours to circulate all water 1 to 2 times per day. More than that could result in over chlorination.



**2.** Regularly test water with FROG Test Strips to maintain pH and Total Alkalinity.

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



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

**Note:** These lower chlorine levels are only acceptable when using FROG minerals.

**4.** Shock the pool every other week or as needed. We recommend a non-chlorine shock as reducing chlorine use is the goal of FROG products. However, using a chlorine shock is ok too. Additional shocking may be required if the pool is under heavy use, high heat or rain.

**5.** Before closing the pool for winter, use FROG BAM following the directions below.

**6.** Remember to replace Pool FROG Mineral Reservoir and all other FROG replacements as directed.



## Replacing a Pool FROG® Mineral Reservoir

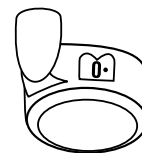
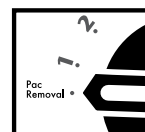
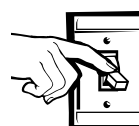


**1.** Make sure you have the correct Pool FROG Mineral Reservoir to fit your Pool FROG Cyclor.

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



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

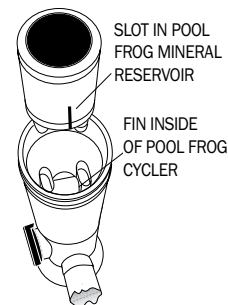


**3.** Turn off pump and turn dial to lowest setting.

**4.** Open cap. If using a Pool FROG 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 Pool FROG Cyclor. Lower Pool FROG Mineral Reservoir into Pool FROG Cyclor until secure.

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



### IMPORTANT

USE ONLY the factory recommended replacement Pool FROG Mineral Reservoir, FROG BAM and Pool FROG Pac. DO NOT USE any other pac or bulk chemical tablets in the Pool FROG Cyclor or put anything inside other than the appropriate Pool FROG products as directed in the product instructions. Use of any other product could result in damage to pool equipment or surface, fire or explosion. Warranty will be void if the correct Pool FROG products are not used.

## Using FROG® BAM® for a 90-Day Algae Protection Guarantee

### For a preventive dose add:

- One FROG BAM for pools up to 15,000 gallons.
- Two FROG BAM for pools between 15,000 and 30,000 gallons.

**1.** Remove cap from FROG BAM without removing seal.



**2.** Insert upside down into center of Pool FROG Mineral Reservoir pushing down firmly on FROG BAM bottle allowing key in Pool FROG Cyclor to puncture seal.

**3.** Replace cap by hand only. Do not over tighten. Turn control dial on Pool FROG Cyclor to the highest setting.



**4.** Turn pump on for 90 minutes allowing FROG BAM to circulate through pool.

**5.** To remove, turn pump off, turn dial to lowest setting and remove cap. Lift FROG BAM up to allow any water in the container to drain through the Pool FROG Cyclor before discarding in trash or offering for recycling if available.

If pool size requires additional FROG BAM, repeat steps 1-5. Mark your calendar for the 90-day replacement of FROG BAM.

See FROG BAM product labeling for complete directions for use.



# Using the Pool FROG® Pacs



Pool FROG  
Bac Pac  
for use in the  
Models 5400 and 6100



Pool FROG  
Pac for use  
in the Pool FROG  
XL PRO Chlorine Cycler



## IMPORTANT

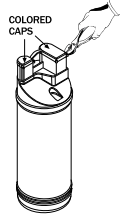
Avoid sparks, open flame or smoking when handling a chlorine pac.

### 1. TURN PUMP OFF

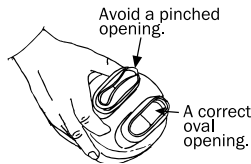
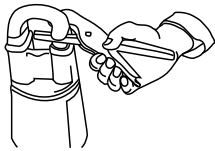
Turn control dial to lowest setting. Remove cap from Pool FROG Cycler and stand back to let any chlorine fumes dissipate.

### 2. OPEN PAC

**2a. Pool FROG Bac Pac** To remove colored caps, grab onto the lip of one cap with a pliers and pull up until cap releases. Repeat the process for the other cap.



**2b. Pool FROG Pac** Find the indent in the plastic handle and cut using a 2" PVC cutter. Make sure the blade comes straight across on the indent line for a clean cut. If openings are pinched together, open with fingers or re-cut closer to the colored screens inside the Pool FROG Pac. Leave at least 1/4" of plastic to fit into the Pool FROG Cycler.



For Pool FROG Model 5400 or XL PRO: Cap removal is easier if using the tool included with the Pool FROG Cycler. To loosen cap, place cap tool on cap and hit the handle with the flat of your hand counter-clockwise. **DO NOT USE CAP TOOL TO TIGHTEN CAP.**

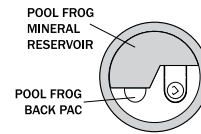


**2.c.** Invert Pool FROG Pac and shake slightly until chlorine tablets fall into tower areas.

### 3. INSERT PAC INTO POOL FROG CYCLER

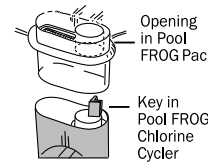
#### 3a. Pool FROG Bac Pac

Line up small leg with small opening in Pool FROG Mineral Reservoir and large leg with large opening. Lower pac until secure.



#### 3b. Pool FROG Pac

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.



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



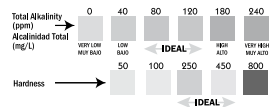
**5.** The chlorine pacs are made of HDPE plastic. Non-refillable container. Do not reuse or refill this container. Rinse thoroughly before discarding in trash or offer for recycling if available.



**6.** Once you know how long your pacs last, mark your calendar for the approximate replacement times for the Pool FROG pacs.

## Troubleshooting Learn more at [frogproducts.com](http://frogproducts.com) or call 800-222-0169

### Cloudy Water or Low Chlorine Levels



**1.** Check water balance. Ensure pH, Total Alkalinity, Total Hardness and Stabilizer levels are correct.



**2.** Check Pool FROG Pac. If empty, replace following directions on the label.

**3.** Make sure your Pool FROG Mineral Reservoir is not older than 6 months as it will be ineffective and more chlorine will be required to maintain the pool until you replace the Pool FROG Mineral Reservoir.

**4.** Turn the Pool FROG Cycler dial up or run your pump longer per day to increase chlorine output.

**5.** Shock the pool to regain clarity.

### High Chlorine Levels

- Remove the chlorine pac from the Pool FROG Cycler until the chlorine level is down to 1.0 ppm.
- Lower the dial setting on the Pool FROG Cycler by 1 number.
- Test in 24 hours. Repeat process until chlorine level stays within 0.5 to 1.0 ppm.

### Algae

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



Escanear para manual  
en español y de datos  
de seguridad

Register your Pool FROG Mineral Reservoir at [frogproducts.com](http://frogproducts.com)

Manufactured for



6000 CLEARWATER DR | MINNETONKA, MN 55343  
800-222-0169 | [frogproducts.com](http://frogproducts.com)

\*Compared to the minimum EPA recommended chlorine level of 1.0 ppm for a stabilized swimming pool.  
Cleaner, Clearer and Softer water for pools, hot tubs and swim spas.

Assembled in U.S.A.  
Patents: [kingtechnology.com/IP](http://kingtechnology.com/IP)