



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



FROG Leap® Anti-Bac® Mineral Pac®

**Patented Mineral Pool Disinfectant
Operational Instructions**



Cleaner

because it kills bacteria two ways

Clearer

because it helps keep pH in range

Softer

because it reduces chlorine use up to 50%*

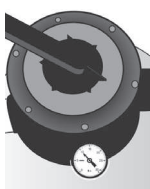
Easier

with pre-filled pacs for no mess, no guess and no stress

Step 1: Preparing the Pool



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. 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. If using source water that is high in iron or other metals, see your dealer before filling 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. Take a water sample to your local pool professional (or use a complete test kit) that will test for the important Water Balance Guidelines.

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

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

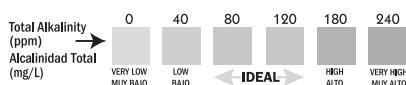
Water Balance Guidelines

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

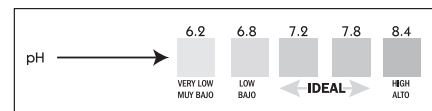
4a. Take a water sample from the pool and dip a FROG® Test Strip into it.



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 for **Calcium Hardness**. It should be between **200 and 400 ppm**. If higher, partially drain the pool and fill with water low in calcium. If lower, add Calcium Increaser.

4e. Lastly test for **Stabilizer or Conditioner levels**. Add Conditioner if the level is below 20 ppm. This will prevent chlorine burn off.

5. Shock the pool with an EPA registered chlorine shock to rid the water of contaminants.

Follow manufacturer's directions carefully.

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



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

6. Begin Routine Pool Care as soon as the pool is prepared.

Step 2: Putting the System to Work



FROG Leap Twin Mineral Infuser

FROG Leap Twin Chlorine Infuser

1. Install a FROG Leap Anti-Bac Mineral Pac into the FROG Leap Infuser. (See page 3 for directions.)

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

2. Replace cap and run FROG Leap Infuser, with FROG Leap Anti-Bac Mineral Pac inserted, for 10 minutes on Setting 10 or ON depending on the model.



3. Shock the pool with FROG Leap Depth Charge® to rid the water of all contaminants. (See page 3 for directions.)



4. Create a chlorine residual with FROG Leap Reveille® or a chlorine shock. **THIS STEP IS VERY IMPORTANT TO START-UP.** Always begin with chlorine in the pool water. (See page 3 for directions.)



5. For an Algae Protection Guarantee insert FROG Leap All-Out® into FROG Leap Anti-Bac Mineral Pac in FROG Leap Infuser or Mineral Infuser. (See page 4 for directions.)

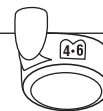


6. When chlorine reading is down to 1.0 ppm, which may take a few days, insert FROG Leap Torpedo Pac®. (See page 4 for directions.)

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 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.

25K Gallons		8 HOUR PUMP-RUN TIME				12 HOUR PUMP-RUN TIME				24 HOUR PUMP-RUN TIME			
Gallons	Diameter	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')	5.0	4.5	4.0	3.5	4.5	4.0	3.0	5.0^	3.5	3.0	2.5	4.0^
9,000	(21')	5.5	5.0	4.5	4.0	5.0	4.5	4.0	5.5^	4.0	3.5	3.0	4.5^
12,000	(24')	6.0	5.5	5.0	4.5	5.5	5.0	4.5	4.0	4.5	4.0	3.5	5.0^
15,000		NR	6.0	5.5	5.0	6.0	5.5	5.0	4.5	5.0	4.5	4.0	3.5
20,000		NR	NR	6.0	5.5	NR	6.0	5.5	5.0	5.5	5.0	4.5	4.0
25,000		NR	NR	6.5	6.0	NR	6.5	6.0	5.5	6.0	5.5	5.0	4.5

40K Gallons		8 HOUR PUMP-RUN TIME				12 HOUR PUMP-RUN TIME				24 HOUR PUMP-RUN TIME			
Gallons	Diameter	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')	4.0	3.5	3.0	2.5	2.0	1.5	0.5	2.5^	1.0	0.5	0.5	1.5^
9,000	(21')	4.5	4.0	3.5	3.0	2.5	2.0	1.5	3.0^	1.5	1.0	0.5	2.0^
12,000	(24')	5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	2.0	1.5	1.0	2.5^
15,000		NR	5.0	4.5	4.0	3.5	3.0	2.5	2.0	2.5	2.0	1.5	1.0
20,000		NR	NR	5.0	4.5	4.0	3.5	3.0	2.5	3.0	2.5	2.0	1.5
25,000		NR	NR	5.5	5.0	4.5	4.0	3.5	3.0	3.5	3.0	2.5	2.0
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 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 2 to determine the correct setting for your pool.

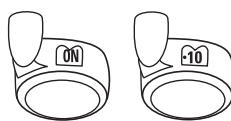


For the first week test the pool water daily for free chlorine with FROG Test Strips to ensure correct dial setting. Continue to test weekly throughout the season.



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 maintain setting of ON or Setting 10. Maintain a minimum chlorine reading of 0.5 ppm with a chlorine delivery device or hand feeding. No adjustments needed.

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: Chlorine levels are lower only when used with FROG minerals



4. Shock the pool every other week or as needed with a non-chlorine shock. Additional shocking may be required if the pool is under heavy use, high heat or rain.



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



5. Before closing the pool for the winter, use FROG Leap Pool Hibernation following the same directions as FROG Leap Pool Wake Up! on page 3.



6. Remember to replace FROG Leap Anti-Bac Mineral Pac and all other FROG Leap replacements as directed.

Replacing a FROG Leap Anti-Bac Mineral Pac



1. Make sure you have the correct FROG Leap Anti-Bac Mineral Pac to fit your FROG Leap Infuser.

THE FROG LEAP ANTI-BAC MINERAL PAC MUST BE REPLACED EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER.

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



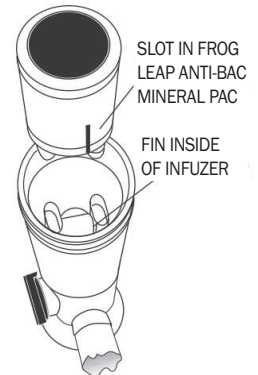
USE ONLY the factory recommended replacement FROG Leap Anti-Bac Mineral Pac, FROG Leap All-Out, FROG Leap Torpedo Pac and FROG Leap Wake Up!/FROG Leap Hibernation. DO NOT USE any other pac or bulk chemical tablets in the FROG Leap Infuser or put anything inside other than the appropriate FROG Leap product as directed in the product instructions. 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 FROG Leap Anti-Bac Mineral Pac, FROG Leap All-Out, FROG Leap Torpedo Pac and FROG Leap Wake Up!/FROG Leap Hibernation are not used.



3. Turn off pump and turn dial to Setting 0 or OFF depending on the model.

4. Open cap. If using a chlorine pac, stand back to avoid inhaling chlorine fumes.

5. Find slot on side of FROG Leap Anti-Bac Mineral Pac and line up with fin inside the FROG Leap Infuser OR Mineral Infuser of FROG Leap Twin. Lower FROG Leap Anti-Bac Mineral Pac into FROG Leap Infuser OR FROG Leap Twin Mineral Infuser until secure.



FROG Leap Twin Mineral Infuser

FROG Leap Twin Chlorine Infuser

Mark your calendar for the six month replacement of the FROG Leap Anti-Bac Mineral Pac. 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 spent media inside, it is no longer effective and must be replaced.

Using FROG Leap Pool Wake Up!

FROG Leap Depth Charge is a one time start-up product used to rid the water of contaminants.

FROG Leap Reveille is also used at start up, sets the chlorine residual to help find the proper dial setting.

FROG Leap All-Out offers a 90-day Algae Protection Guarantee.



FROG Leap Depth Charge



FROG Leap Reveille



FROG Leap All-Out



Avoid sparks, open flame or smoking when handling FROG Leap Depth Charge and FROG Leap Reveille.

COLORED CAPS



1. 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.



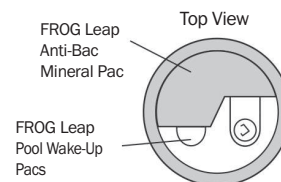
Pac Towers — Pac Towers

2. Turn pac over and shake slightly until ingredients fall into tower areas.

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



3. Line up the small leg of the pac with the small opening in the FROG Leap Anti-Bac Mineral Pac and the large leg with the large opening. Lower pac into FROG Leap Anti-Bac Mineral Pac until secure.



FROG Leap Pool Wake-Up Pacs

4. Replace cap by hand only. **DO NOT OVER TIGHTEN.**



5. Run the pump and filter for each pac according to the directions on the product label. Remove from the FROG Leap Infuser when empty and discard or offer for recycling.

Using FROG Leap All-Out

For a preventive dose add:

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

1. Remove cap from FROG Leap All-Out without removing seal.



3. Turn pump on for 90 minutes allowing FROG Leap All-Out to circulate through pool.

2. Insert upside down into center of FROG Leap Anti-Bac Mineral Pac pushing down firmly on key to puncture seal.



4. To remove, turn pump off, turn dial to lowest setting and remove cap. Lift FROG Leap All-Out up to allow any water in the container to drain through the FROG Leap Infuser before recycling or discarding in trash.

Mark your calendar for the 90-day replacement of FROG Leap All-Out.

See FROG Leap All-Out product labeling for complete directions for use.

Using the Chlorine Pacs



FROG Leap Torpedo Pac 2 lb. for use in the FROG Leap Infuser



FROG Leap Torpedo Pac 4 lb. for use in the FROG Leap Twin Chlorine Infuser



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

1. OPEN PAC

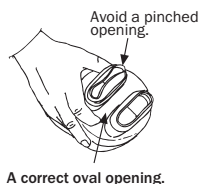
1a. FROG Leap Torpedo Pac 2 lb.

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.



1b. FROG Leap Torpedo Pac 4 lb.

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 FROG Leap Torpedo Pac. Leave at least 1/4" of plastic to fit into the FROG Leap Infuser.



A correct oval opening.

- 1c. Invert FROG Leap Torpedo Pac and shake slightly until chlorine tablets fall into tower areas.



2 lb. Torpedo Pac Towers

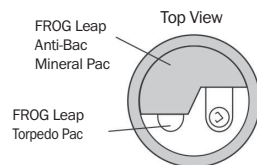


4 lb. Torpedo Pac Towers

2. INSERT PAC INTO FROG LEAP INFUSER

2a. FROG Leap Torpedo Pac 2 lbs.

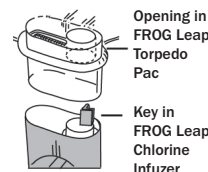
Line up small leg with small opening in FROG Leap Anti-Bac Mineral Pac, and large leg with large opening. Lower pac until secure.



2b. FROG Leap Torpedo Pac 4 lbs.

Line up the openings in the pacs with the keys in the FROG Leap Twin Chlorine Infuser.

Note: Openings are a different shape than keys. Lower pac until secure.



FROG Leap Twin Mineral Infuser FROG Leap Twin Chlorine Infuser



3. 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.



4. Mark your calendar for approximate replacement time for the FROG Leap Torpedo Pac.

Troubleshooting [Learn more at frogproducts.com](http://frogproducts.com)

Cloudy Water or Low-Chlorine Levels

- Check water balance. Ensure pH, Total Alkalinity, Calcium Hardness and Stabilizer levels are correct.
- Check Chlorine Pac. If empty, replace following directions on the label.
- Make sure your FROG Leap Anti-Bac Mineral Pac 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 minerals.
- Shock the pool to regain clarity.

High-Chlorine Levels

- Remove the chlorine pac from the FROG Leap Infuser until the chlorine level is down to 1.0 ppm.
- Lower the dial setting on the FROG Leap Infuser 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 Leap All-Out and its Algae Protection Guarantee.



530 11TH AVE S. HOPKINS, MN 55343
800-222-0169 | frogproducts.com

* Compared to the minimum EPA recommended chlorine level of 1.0 ppm for a stabilized swimming pool.
∞ For pools and hot tubs.

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Patents: kingtechnology.com/IP