POOL CARE GUIDE

Perfect Pool Care

REGAL
Pool Care System

RegalChemicals.com
Pool Care Made Simple
3 EASY STEPS

Welcome to the world of REGAL® pool care system. This book will guide you on the usage of products, care, and testing of your water in order to keep your pool clear and sparkling. Please take a few minutes to review this information and call your professional REGAL® dealer if you have any questions or problems. They’re professionals in pool care and they are there to meet your needs.

Enjoy your swimming season and thank you for choosing REGAL® pool care products.

3-Step System

1. Sanitize your pool with convenient stabilized chlorine. Whether your preference is Chlorinated Tablets 1”, Chlorinated Tablets 3”, or Skimmer Sticks, REGAL® has you covered.

2. Shock on a routine basis with effective Super Shock-It 73® granules or Re-Fresh®+ granules to kill bacteria, destroy algae, and eliminate organic contaminants.

3. Safeguard with a quality REGAL® Algaecide to provide a preventive back-up system, and protect your pool against the threat of troublesome algae.
The heart of the circulation system is the pump. It moves water from the pool and sends it through the filter for removal of any dust, dirt, and debris prior to sending it back to the pool.

The primary question that most pool owners ask is

“How long should I run my pump?”

There are too many variables for one “covers all” answer. Piping size, pool size, swimmer load and size of the actual pump all play a role in determining how long you should run your pump. For the proper “run time” consult your REGAL® dealer. They can determine, based upon all the variables, the proper amount of time required to keep your pool clear and clean.

NOTE: If your pump is not running, the water from your pool is not being properly circulated or filtered. Running the pump and circulating the water is the best way to help prevent problems.

The filtration system is to remove any undissolved dirt and debris from the pool water. Both the skimmer basket and the hair and lint basket within the pump play a role in the filtering of the pool water, the primary element of the system we will discuss here is the filter itself.

Consult your REGAL® dealer for assistance in understanding the role that the skimmer and pump basket play in keeping your pool clean. Always consult your owner’s manual for specifics related to the type of filter you have.

Filter Types
There are three types of filters that are used in swimming pools to remove dirt and debris that enter the water through swimmers and the environment:

1. Sand
2. Cartridge
3. Diatomaceous Earth (DE)

If you don’t know your filter type, your REGAL® dealer can assist you in determining which filter you have. The following pages describe these three different types of filters.
• **Sand Filters**

Dirt is removed from a sand filter by “backwashing” or reversing the water flow. The filter should be backwashed when the pressure increases 7-10 lbs. over normal operating pressure. *(This is the pressure indicated on the pressure gauge when the filter is completely clean.)*

Sand filters are more efficient when they are slightly dirty; consequently they should only be backwashed when required by the increase in pressure.

Sand filters should be cleaned at least twice every season with REGAL® Filter Cleaner and Degreaser. Consult your REGAL® dealer for the frequency requirements for changing the sand.

• **Cartridge Filters**

Dirt needs to be removed from a cartridge filter when the pressure gauge indicates an increase of 7-10 lbs. over normal operation pressure. Remove the cartridge(s) from the filter, and hose off all loose dirt and debris. Then soak the cartridge(s) in REGAL® Filter Cleaner and Degreaser for at least 12 hours. This will remove all oils and greases imbedded in the filter cartridge. After soaking, remove the cartridge(s) and rinse thoroughly with fresh water.

Peak filter efficiency is achieved if you allow the filter cartridge(s) to dry prior to reinstalling in the filter. To avoid any “down time” for the circulation or filtration systems, it is advisable to purchase a second set of cartridge cartridge so they may be interchanged on a regular basis with the first set.

• **Diatomomaceous Earth (DE) Filters**

Like sand, the DE filter is cleaned by backwashing the filter when pressure increases 7-10 lbs. However, once the filter has been backwashed, new DE must be added to coat the grids in the filter. This is accomplished by pouring DE through the skimmer. Your REGAL® dealer can tell you how much DE is required to “recharge” your filter.

To cut oils and other natural oil build-up, DE filter grids should be cleaned at least twice every season using REGAL® Filter Cleaner and Degreaser.

Also, at least once a year the entire DE filter should be disassembled and cleaned thoroughly as well as inspected for tears or rips in the grids.

*REMEMBER: If you don’t know your filter type, your REGAL® dealer can assist you in determining which filter you have.*
TESTING YOUR POOL

Testing your pool 2-3 times a week is important for maintaining adequate water balance and sanitizer levels as well as ensuring swimmer comfort. Test strips are a quick means (only 30 seconds) to test the pool for adequate sanitizer levels as well as pH and total alkalinity.

Proper testing also ensures that calcium levels are maintained and that there are no metals present in the pool water.

In order to prevent scaling or corrosive action and to achieve maximum swimmer comfort, the pool water should be balanced to the following levels.

<table>
<thead>
<tr>
<th>TEST</th>
<th>RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7.2 - 7.6</td>
</tr>
<tr>
<td>Total Alkalinity</td>
<td>120 - 150 ppm</td>
</tr>
<tr>
<td>Calcium Hardness (Concrete Pools)</td>
<td>200 - 250 ppm</td>
</tr>
<tr>
<td>Calcium Hardness (Vinyl Pools, Above Ground Pools, Fiberglass Pools, Swim Spas)</td>
<td>175 - 225 ppm</td>
</tr>
<tr>
<td>Free Chlorine</td>
<td>1 - 3 ppm</td>
</tr>
<tr>
<td>Free Bromine</td>
<td>3 - 5 ppm</td>
</tr>
<tr>
<td>Metals: Copper</td>
<td>0 ppm</td>
</tr>
<tr>
<td>Metals: Iron</td>
<td>0 ppm</td>
</tr>
</tbody>
</table>

**Balancing pH**

pH is the measure of acid and base in the pool water. The pH of the pool should be tested and adjusted, 2-3 times weekly.

If the pH of the pool water drifts to the acid side of the scale, corrosion of pool surfaces and equipment can occur. If the pH of the pool water drifts to the base side, scaling, deposits, and cloudy water can occur.

Use REGAL® pH Plus to increase the pH of the pool. To lower the pH of the pool, use REGAL® pH Minus. Follow the label directions for the proper amount of the products to add based upon test results and pool size.

Take a sample of water to your REGAL® dealer every 2-3 weeks for complete test and analysis.

**NOTE:** Always follow label directions when adding any pool maintenance products to the pool. Never mix products together. If unsure how products are to be used, contact your REGAL® Dealer.
• **Calcium Hardness**

Calcium Hardness is the amount of dissolved calcium in the pool water. Low calcium hardness levels can cause plaster finish etching and can shorten the life of vinyl liners. High calcium levels can result in calcium deposits on the pool surfaces as well as the pool equipment.

The proper range for calcium hardness in pool water is 200-250 ppm (parts per million) for concrete pools and 175-225 ppm for vinyl pools. Your REGAL® dealer can test for calcium hardness on a regular basis when you take a sample of your pool water in for analysis.

To increase calcium hardness, use REGAL® Calcium Increaser. Follow the label directions for dosage rates based upon pool volume and test results. If calcium hardness levels are high, REGAL® Metal Out should be used to prevent deposits or scaling on the pool surface or on pool equipment, and to prevent metal stains.

If the calcium levels are exceedingly high, (in excess of 450 ppm) partial drainage of the pool may be required. Your REGAL® dealer can advise you of the best method for treating your pool if you encounter high calcium hardness.

If tests indicate that you have extremely high calcium levels in your pool, take a sample of your fill water (water used to fill the pool) to your REGAL® dealer for analysis as well.

• **Total Alkalinity**

To prevent the pH from “drifting” or “bouncing” up and down, the proper amount of acid buffers, or total alkalinity, must be maintained in the pool. The pool should be tested weekly with a total alkalinity of 120-150 ppm (parts per million) maintained.

Low total alkalinity can not only result in pH bounce and fluctuations, but it can lead to corrosiveness and the possibility of increased staining. High total alkalinity can also cause the pH to fluctuate, the pool to become cloudy, and possibly cause scaling.

To lower total alkalinity, follow the directions from your REGAL® dealer. To raise total alkalinity, follow the label directions on REGAL® Alkalinity Plus.

• **Metals**

There should not be any metals present in the pool water. Metals can cause staining in the pool and can cause the pool to turn colors. The most common types of metals that appear in pool water are copper, iron, and manganese. Your REGAL® dealer can test your pool water for the presence of any type of metals.

If tests indicate that metals are present in the pool, REGAL® Metal Out should be used on a regular basis to prevent staining. You should determine the source of the metals and remove if possible.
• Sanitize with Chlorine

REGAL® stabilized chlorine products sanitize your pool water and kill bacteria. Stabilized chlorine products are protected from sunlight degradation and are an ideal means to keep your pool clear and clean.

REGAL® stabilized chlorine products are available in a variety of forms:

• Chlorinated Tablets 3”
• Chlorinated Tablets 1”
• Skimmer Sticks
• Dy-Chlor II

Your REGAL® dealer can determine the best form and type of sanitization for your particular needs to help you maintain a free chlorine level of 1-3 ppm in the pool at all times.

• Sanitize with Bromine

You may want to use bromine instead of chlorine to sanitize your pool. REGAL® Brom-A-Gard Tablets provide a reliable method for killing bacteria and keeping your pool clear and clean.

To utilize bromine effectively, an automatic brominator should be installed in your pool. Check with your REGAL® dealer for more information.

• Shocks

Shocking the pool on a regular basis is a critical step in keeping the pool clear and clean. Swimmers and the environment add waste to the pool that must be eliminated on a regular basis in order to prevent problems such as algae and cloudy water.

REGAL® shock products are available in a variety of forms:

• Oxy-Klear
• Re-Fresh®
• Re-Fresh+®
• Super Shock-It 73®

Your REGAL® dealer can recommend the REGAL® product best suited for your shocking needs.

• Algaecides

Preventing algae is the key to fun in your pool. Algaecides act as a backup to your normal sanitization program, and prevent algae from growing in the pool. Algaecide should be added after every shock treatment.

REGAL® has an algaecide products available in a variety of forms:

• Poly-Algaecide 30
• Algaecide 50
• Algaecide 60
• Algaecide Plus
• Granular 90

Your REGAL® dealer can recommend an algaecide for your needs.
YOUR POOL PROGRAM

Name: ___________________________________________________
Pool Capacity: _____________________________________________
Filter: __________________________________________________
Pump: ___________________________________________________
Heater: __________________________________________________
Pool Finish: _______________________________________________

REMEMBER: Test the pool water weekly. Bring your REGAL® dealer a sample of pool water every 2-3 weeks to be tested for calcium hardness and metals. Maintain your pool balance within the following ranges:

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Initial / Opening Treatment*

Add ______________________ to shock the pool.
Add ______ Chlorinated Tablets 3”, Chlorinated Tablets 1”,
Skimmer Sticks or Dy-Chlor II.
Add ______ REGAL® Algaecide ______________________

Weekly Treatment

Add ______ REGAL® sanitizer every __________________
Shock the pool: ______________ REGAL® ______________
(Pump should be running when adding shock.)
Add ______ REGAL® Algaecide ______________________

SAFETY TIPS

• ALWAYS read all label directions on all products prior to using, and only use as directed.
• USE A SEPARATE, PLASTIC MEASURING CUP for each chemical.
• USE A SEPARATE, NON-CONTAMINATED BUCKET to mix the chemical into the water.
• For chemicals that require pre-mixing with water, ALWAYS add the chemical to the water. NEVER add water to the chemical.
• NEVER mix one chemical with another chemical prior to adding to the water.
• Use a separate bucket for each chemical you mix into water, and never mix more than one chemical into the water in any bucket.
• NEVER add chemicals to the water when people are in the pool.
• Be sure to only add one chemical to the pool at a time and allow time for each chemical to circulate before adding another.
• There are chlorinated products that are not compatible when mixed.
• NEVER mix chemicals together.
• DO NOT use quantities in excess of the recommended dosage on the label.
• After shock treating, you MUST wait until the free available chlorine residual is at the level recommended by the label instructions.
• DO NOT use contents of unlabeled containers.
• Keep all chemicals out of the reach of children.
• Be sure to properly store and handle chemicals in accordance with label instructions.
• Store chemicals in a clean, cool, dry location out of direct sunlight.
• Containers should always be kept closed when not in use.
• PROPERLY DISPOSE of all containers. Do not reuse empty chemical containers.
• WASH YOUR HANDS THOROUGHLY after handling the chemicals.

If you encounter any problems, take a water sample for a complete test and analysis to your REGAL® dealer. They can meet your pool care needs quickly and cost effectively.
Pool Care Made Easy
with the complete REGAL® line of quality professional chemicals.