

# AQUA SMARTE® Plus®

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



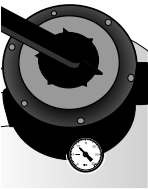
## AQUA SMARTE® Plus® Mineral Activator®

### Patented Mineral Pool Disinfectant Operational Instructions

#### Step 1: Preparing the Pool



**1.** Make sure the pool has adequate circulation. The 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. 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.

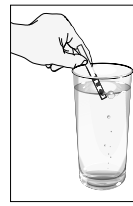
Our recommendation for achieving water balance is to follow steps **a through e** in order.

**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

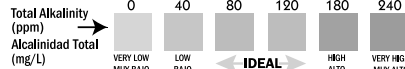
pH:	7.2 – 7.8
Total Alkalinity:	80 – 120 ppm
Calcium Hardness:	200 – 400
Total Dissolved Solids:	<1500
Stabilizer/Conditioner:	20 – 80 ppm
Free Chlorine:	0.5 – 1.0 ppm

**a.** Take a water sample from the pool and dip an AQUA SMARTE Plus Pool and Spa Test Strip® into it.



**b.** 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.



**c.** 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.



**d.** 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.



**e.** 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 AQUA SMARTE Plus Docking Station® 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



**1.** Install an AQUA SMARTE Plus Mineral Activator into the Docking Station (see page 3 for directions). **REPLACE THE AQUA SMARTE PLUS MINERAL ACTIVATOR EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER.**

**2.** Replace cap and run AQUA SMARTE Plus Docking Station with Mineral Activator inserted, for 10 minutes at Setting 5.



**3.** Shock the pool with AQUA SMARTE Plus Shine® to rid the water of contaminants (see page 4 for directions).

**4.** Create a chlorine residual with AQUA SMARTE Plus Optimize® or a chlorine shock (see page 4 for Optimize directions). **THIS STEP IS VERY IMPORTANT TO START-UP. Always begin with chlorine in the pool water.**



**5.** For a 90-day algae protection guarantee, insert AQUA SMARTE Plus CANNONBALL® into AQUA SMARTE Plus Mineral Activator in AQUA SMARTE Plus Docking Station (see page 4 for directions).

**6.** When chlorine reading is down to 1.0 ppm, which may take a few days, insert AQUA SMARTE Plus MizerMax 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 chart below. **THIS IS A STARTING POINT ONLY** and may need to be adjusted to fit your individual pool needs. See #2 for directions.

Above Ground POOL SIZE		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

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

**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.

### 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.



2. For the first week test the pool water daily for free chlorine with AQUA SMARTE Plus Pool and Spa 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 AQUA SMARTE Plus range of 0.5 ppm to 1.0 ppm chlorine.



**If using another means of chlorine maintain setting of Setting 10. Maintain a minimum chlorine reading of 0.5 ppm with a chlorine delivery device or hand feeding. No adjustments needed.**

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

## 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 AQUA SMARTE Plus Pool and Spa 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 AQUA SMARTE Plus 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 AQUA SMARTE Plus Docking Station as it could damage equipment, risk potential explosion or discolor your pool surface.**



5. Before closing the pool for winter, use AQUA SMARTE Plus Pool Asleep following the same as AQUA SMARTE Plus Pool Awake! directions on page 4.



6. Remember to replace AQUA SMARTE Plus Mineral Activator and all other AQUA SMARTE Plus replacements as directed.

# Replacing an AQUA SMARTE Plus Mineral Activator



**1.** The Mineral Activator will fit AQUA SMARTE Plus Docking Station Model 7700 and AQUA SMARTE Plus Docking Station Models 5700 or 6700.

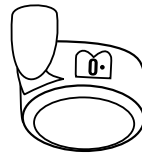
**THE AQUA SMARTE PLUS MINERAL ACTIVATOR MUST BE REPLACED EVERY 6 MONTHS OR AFTER ONE POOL SEASON WHICHEVER IS SHORTER.**



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



Use **ONLY** the factory recommended AQUA SMARTE Plus replacement products. **DO NOT USE** bulk chemical tablets in the AQUA SMARTE Plus Docking Station or put anything inside the AQUA SMARTE Plus Docking Station other than the appropriate AQUA SMARTE Plus products 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 AQUA SMARTE Plus products are not used.

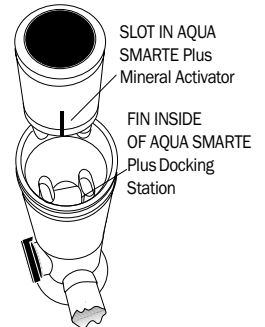


**3.** Turn off pump and turn dial to Setting 0.



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

**5.** Find slot on side of the AQUA SMARTE Plus Mineral Activator and line up with fin inside the AQUA SMARTE Plus Docking Station. Lower the AQUA SMARTE Plus Mineral Activator into the AQUA SMARTE Plus Docking Station until secure.



Mark your calendar for the six month replacement of the AQUA SMARTE Plus Mineral Activator. 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 AQUA SMARTE Plus Awake

**AQUA SMARTE Plus Shine** is a one time start-up product used to rid the water of contaminants.

**AQUA SMARTE Plus Optimize** is also used at start up, sets the chlorine residual to help find the proper dial setting.

**AQUA SMARTE Plus CANNONBALL!** offers a 90-day Algae Protection Guarantee.



AQUA SMARTE Plus Shine



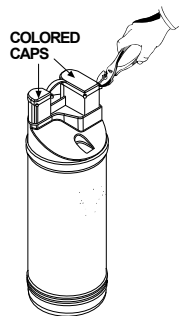
AQUA SMARTE Plus Optimize



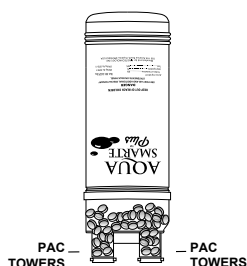
AQUA SMARTE Plus CANNONBALL!



Avoid sparks, open flame or smoking when handling AQUA SMARTE Plus Shine and AQUA SMARTE Plus Optimize.



**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.

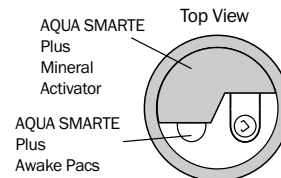


**2.** Turn pac over and shake slightly until ingredients fall into tower areas.

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 AQUA SMARTE Plus Mineral Activator and the large leg with the large opening. Lower pac into AQUA SMARTE Plus Mineral Activator until secure.



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

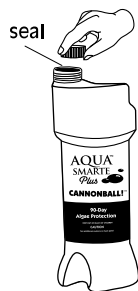


**5.** Run the pump and filter for each pac according to the directions on the product label. Remove from the AQUA SMARTE Plus Docking Station when empty and discard or offer for recycling.

# Using AQUA SMARTE Plus CANNONBALL! for an Algae Protection Guarantee

## For a preventive dose add:

- One AQUA SMARTE Plus CANNONBALL! for pools up to 15,000 gallons.
- Two AQUA SMARTE Plus CANNONBALL! for pools between 15,000 and 30,000 gallons.



**1.** Remove cap from the AQUA SMARTE Plus CANNONBALL! without removing seal.



**2.** Insert upside down into center of AQUA SMARTE Plus Mineral Activator pushing down firmly on key to puncture seal.

**3.** Turn pump on for 90 minutes allowing AQUA SMARTE Plus CANNONBALL! to circulate through pool.



**4.** To remove, turn pump off, turn dial to lowest setting and remove cap. Lift AQUA SMARTE Plus CANNONBALL! up to allow any water in the container to drain through the cyclor before recycling or discarding in trash.

Mark your calendar for the 90-day replacement of AQUA SMARTE Plus CANNONBALL!.

See AQUA SMARTE Plus CANNONBALL! product labeling for complete directions for use (EPA Reg. No. 53735-9).

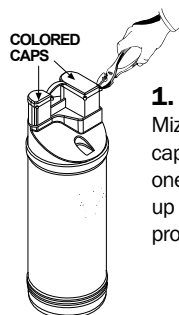
# Using AQUA SMARTE Plus MizerMax Pac



AQUA SMARTE Plus MizerMax Pac 2 lb. for use in the AQUA SMARTE Plus Docking Station



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



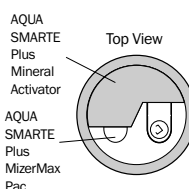
**1.** To open AQUA SMARTE Plus MizerMax Pac remove colored caps by grabbing on to the lip of one cap with a pliers and pulling up until cap releases. Repeat the process for the other cap.



**2.** Invert AQUA SMARTE Plus MizerMax Pac and shake slightly until chlorine tablets fall into tower areas.



**3.** To insert AQUA SMARTE Plus MizerMax Pac line up small leg with small opening in AQUA SMARTE Plus Mineral Activator, and large leg with large opening. Lower pac until secure.



**4.** The chlorine pac is 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.



**5.** Mark your calendar for the approximate replacement time for the AQUA SMARTE Plus MizerMax Pac.

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

### Cloudy Water or Low-Chlorine Levels

- Check water balance. Ensure pH, Total Alkalinity, Calcium Hardness and Stabilizer levels are correct.
- Check AQUA SMARTE Plus MizerMax Pac. If empty, replace following directions on the label.
- Make sure your Mineral Activator 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 AQUA SMARTE Plus System until the chlorine level is down to 1.0 ppm.
- Lower the dial setting on the AQUA SMARTE Plus System 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 AQUA SMARTE Plus CANNONBALL! and its Algae Protection Guarantee.