**Aquatics Applications** 

With every drop of sparkling, crystal clean water delivered from the Accu-Tab system comes peace of mind for pool 

### Accu-Tab® System Technology

From community swimming pools and spas to large aquatic facilities, pool operators face tough challenges in the fight for pool water clarity, safety and water balance. The everyday tests of nature in addition to the organic and inorganic materials introduced into the water by swimmers—pose serious issues as pool operators strive to reach quality standards and maintain a healthy environment for patrons.

The Accu-Tab\* chlorination system from PPG Industries stands up to the challenges of commercial pool environments, as well as rigorous industry and government health and performance requirements, by consistently and accurately delivering the chlorine needed to kill harmful bacteria, control algae and destroy organic contaminants. The easy-to-use calcium hypochlorite tablet-based system is built on smart engineering, proprietary tablet technology and quality construction.

Through use of the Accu-Tab chlorination system, which delivers exceptional performance at a great long-term value, pool operators worldwide are streamlining their maintenance duties and improving their pool operations.



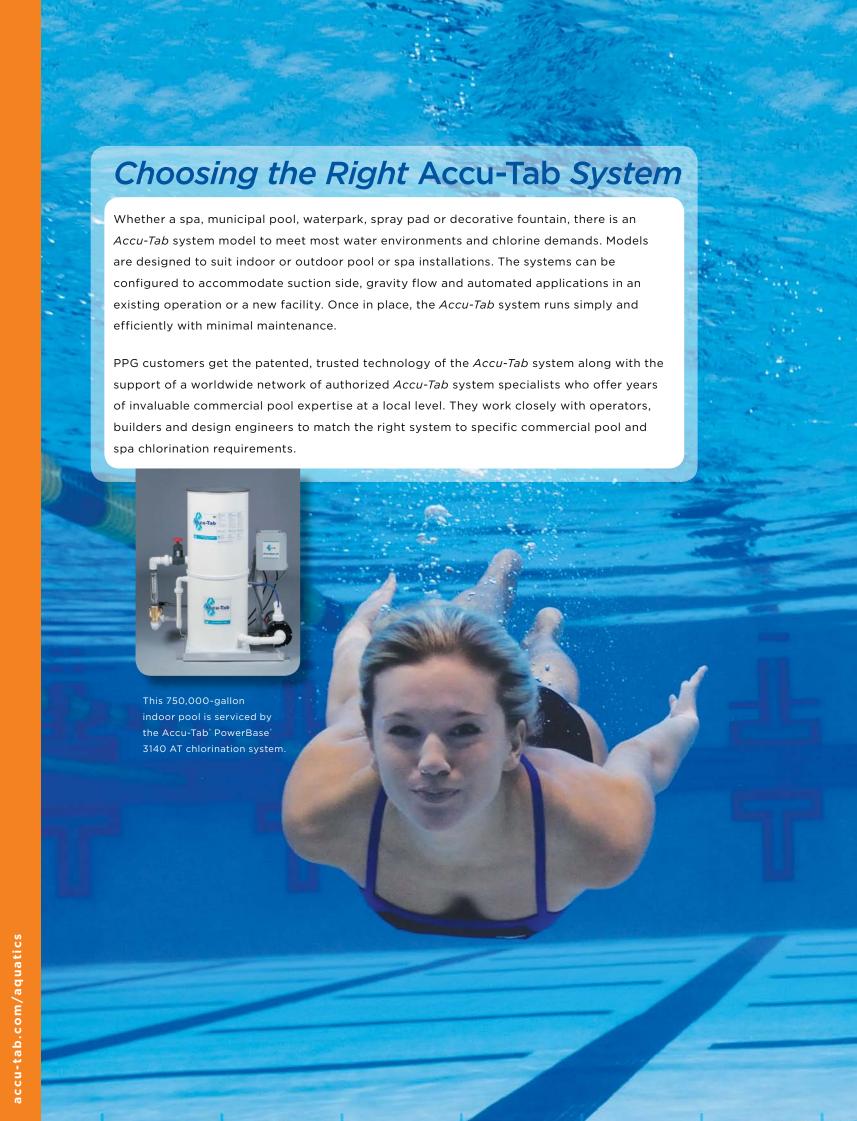
Model 3012













# accu-tab.com/aquatics

### The Power of the Accu-Tab System **Over Alternatives**

The Accu-Tab system minimizes the safety concerns typically associated with the use of liquid bleach and trichlor feeders. In addition to reducing the risk of leaks and spills, it requires only rubber gloves and safety goggles to handle calcium hypochlorite tablets. Unlike salt chlorine generators, there are no salinity issues, the system does not require costly anode cells or nearly as much electricity to operate and it can be adjusted easily to accommodate changes in chlorine demand.

The Accu-Tab system performs more predictably than other calcium hypochlorite systems because of the quality of tablets and the controlled high water flow/lower chlorine concentration delivery technology.

ACCU-TAB®

FACTORS

FACTORS	ACCU-TAB® SYSTEM	ALTERNATIVE CAL-HYPO SYSTEM	
Design Principle	High water flow rate, low chlorine concentration ~ 200 ppm	Soaking or spraying over briquettes, high chlorine concentration ~ 10,000 ppm	
Maintenance	Low chlorine concentration results in less scaling and sludge - typically once per year cleaning!	Strong chlorine solution leads to faster scaling – clean out sludge twice per month or more!	
Flexibility	Chlorinators have a proportional 95% turn-down capability for small bodies of water	Chlorinators need costly controllers to chlorinate small bodies of water	
Plumbing	Large (up to 2") PVC plumbing minimizes spill potential and maintenance	Small diameter tubing can plug with scale; tubing has potential to leak if pinched	
Parts Replacement	Off the shelf replacement parts - fewer parts overall	Small plastic parts are proprietary and must be purchased from dealer	
Chlorinator Construction	Rugged aluminum frame with schedule 40 PVC pipe; chlorinator and pump on one skid	Molded plastic chlorinator construction and separate pump installation	
Tablet Quality	Tablets resist breakage and erode consistently based on proprietary manufacturing process	Small briquettes are formed, not pressed, and may break and crumble in transit	

TRICHLOR

12% CHLORINE SALT CHLORINE

TACTORS	SYSTEM	BLEACH	GENERATOR	TABLETS
Safety	Solid chemical - no dual containment required	Dual containment required for concentrated liquid solution	Typical 100,000-gal. pool requires ~ 4,200 lbs. of salt for initial start-up	Emits nitrogen trichloride fumes
Capacity	High instantaneous chlorine rates for peak chlorine demand	Possible bleach degradation in hot weather	Backup chlorinators often required to maintain chlorine level in certain outdoor pools	Low chlorine delivery and inconsistent
Handling	55-lb. pails	55-gal. drums weigh 500 pounds	Hundreds of pounds of salt	40-lb. pails
Water Quality	Calcium polishing results in clearer water	High total dissolved solids (TDS)	High total dissolved solids (TDS)	Over stabilization
Maintenance	Chlorinators rarely require cleaning or maintenance	Feed pumps need constant repair and tubing leaks regularly; gas locking of pump is not uncommon	Must replace expensive cells every two to four years	Low maintenance
Material Compatibility and Corrosivity	Relatively diluted 100-300 ppm hypochlorite solution	Concentrated (120,000 ppm) hypochlorite solution very corrosive to pump room equipment	Stray voltage can cause corrosion	Low chlorine can cause corrosion of pool equipment
Total Dissolved Solids (TDS) and Cyanuric Acid	No stabilizer buildup; calcium addition	High pH adds a lot of total alkalinity to the water	Must maintain ~ 3,000-9,000 ppm salt concentration in the pool; salt is converted to chlorine as it's passed through the cells	Constant buildup requires periodic draining; some states ban its use, especially in indoor public pools
Water Balance Chemicals	Provides helpful amounts of calcium and total alkalinity	Provides no calcium; often too much total alkalinity	Calcium addition will be necessary to maintain proper water balance	Must increase pH and calcium to maintain proper balance

## Visit www.accu-tab.com/aquatics for more information

### Why choose the Accu-Tab system?

- Demonstrated reliability and cost savings
- Flexibility to suit many applications,
  regardless of size and chlorine demand
- Integrates easily with existing systems
- Many models available
- Quality-controlled tablets are cyanuric acid-free
- NSF/ANSI Standard 50 listed

Contact an *Accu-Tab* system representative to learn learn how the system can improve your operations.



# Behind Every Accu-Tab\* system is the Power of PPG Industries — Innovation, Science, Engineering, Experience.

The Accu-Tab system from PPG is a complete tablet chlorination system backed by the company's industry experts and worldwide specialist network. With more than 50 years of experience in the chlorine industry, PPG has grown to become one of the world's largest manufacturers of chlorine. PPG also makes coatings that protect your computer and car as well as energy-saving glass for your home's windows. The company has sales and manufacturing facilities in more than 60 countries.



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