

Chlorine Companion™

OXIDATION WITHOUT IRRITATION®

U.S. Patent 6,878,289 & other pending patents

PRODUCT FACT SHEET

Chlorine Companion™ was designed to oxidize organic based contaminants in Recreational Water while the source (bathers) of contaminants is present. This “Forward” or “Proactive” approach to pool water management enhances water and air quality, thereby improving bather comfort and enjoyment.

Chlorine Companion™ was specifically developed to enhance treatment performance of chlorine in moderate to high demand pools and spas for the control of chloramines odors, irritation, corrosion, and the formation of trihalomethanes.

By implementing Chlorine Companion™ into your pool-water treatment program, the foul odors and irritation caused from buildup of volatile chloramines and other byproducts can be eliminated, as well as the expense and hassle of:

- Super-chlorination
- Non-chlorine shock
- Supplemental Algicides
- Cleaning corroded equipment
- Increased air exchange

Chlorine Companion™ is a non-halogen product to be used in tandem with the chlorine based sanitizer treatment. This proprietary product is not a sanitizer, but a secondary oxidizer that is specifically designed for moderate to high use pools while preventing the accumulation of the harsh irritant oxodisulfate.

Chlorine Companion™ can be fed while bathers are present by feeding intermittently from a time activated feeder, or fed for sustained low level continuous feed while never exceeding the specified Ratio of Chlorine to Chlorine

Companion™ as specified on the product label. For lower demand applications, addition by broad-casting the powder across the surface of the pool can be applied.

Recommended Control Parameters:

Consult your local and state Health Departments to ensure the pool and spa are operated within their guidelines. Since both under-chlorination and over-chlorination can create their own series of problems, a Free Available Chlorine level of between 1-3ppm is recommended, while maintaining a pH from 7.2-7.6. Maintaining optimum control with optimized feed of Chlorine Companion™ will ensure effective sanitation and oxidation of contaminants.

Feed Location:

Feed of Chlorine Companion™ should be after the filter. If an ORP, Amperometric, &/or pH sensor is used to monitor chemical levels, the Chlorine Companion™ should be fed after the sensor sample point.

Feed Equipment:

A self-priming pump with plastic (Teflon®, Viton®, Polyethylene etc.) wetted internals should be used to feed solutions of Chlorine Companion™ to prevent interruption in feed due to lost prime. No metal components in wetted areas. The pump should include variable speed &/or stroke to allow for optimization of chemical feed. Stenner Pumps are recommended

A chemical storage tank with lid should be used which is placed near a source of water and a drain. No metal components such as mixer blades, lid hinges etc. should be used. Refer to

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the product MSDS and label for proper handling, safety, and disposal instructions.

A mounted (wall or tank) electric mixer is suggested, but optional. Mixing speeds the dissolving of the powder. If no mixing is provided, allow sufficient time for the powder to dissolve to ensure a near saturated solution. Dilute solutions may impair treatment performance and cause buildup of salts in the bottom of the tank.

Making Stock Solutions:

When feeding from a stock solution, never mix up more solution than it necessary to match the usage demand for any 7 day period. Remember always add the Chlorine Companion™ to the water, never the reverse. Applicable for pool or spa applications.

- To make 30 gallons of solution at the proper concentration, mix 50 pounds of Chlorine Companion™ to 30 gallons of water.
- To make 20 gallons of solution at the proper concentration, mix 34 pounds of Chlorine Companion™ to 20 gallons of water.
- To make 10 gallons of solution at the proper concentration, mix 17 pounds of Chlorine Companion™ to 10 gallons of water.
- To make 5 gallons of solution at the proper concentration, mix 8 pounds of Chlorine Companion™ to 5 gallons of water.

When no mixer is available, add HALF of the suggested water to the tank. Add the appropriate amount of Chlorine Companion™. With plastic

water supply line secured in tank, open valve to induce turbulent mixing until the appropriate level of water is reached, then close valve.

Testing:

Free Available Chlorine should be determined using a peroxygen neutralized (EDTA treated) sample. There are several test kit manufacturers that can provide test kits:

- Palintest USA (800-341-2106)
- Taylor Technologies (800-837-8548)

Optimizing Feed Rate:

Moderate to High Use Pools – Best results are achieved by feeding Chlorine Companion™ from a stock solution using a timer activated feeder or a low level continuous feed system to achieve a Ratio of Chlorine to Chlorine Companion™ of 1.1-2.0 lbs chlorine (measured as Cl₂) per 1lb of Chlorine Companion™. Pools experiencing lower bather loads will achieve effective results using lower levels of Chlorine Companion™, or manual addition by broadcasting across the surface of the pool or spa when no bathers are present.

RATIO COMPARISON MADE EASY (Moderate to High Use Pools):

- For every 1.2–2.2 lbs Trichloroisocyanuric acid, feed 1lb Chlorine Companion™
- For every 1.6-2.9 lbs Calcium Hypochlorite, feed 1lb Chlorine Companion™
- For every 1.1-2.0 gallons (10%) Sodium Hypochlorite, feed 1lb Chlorine Companion™

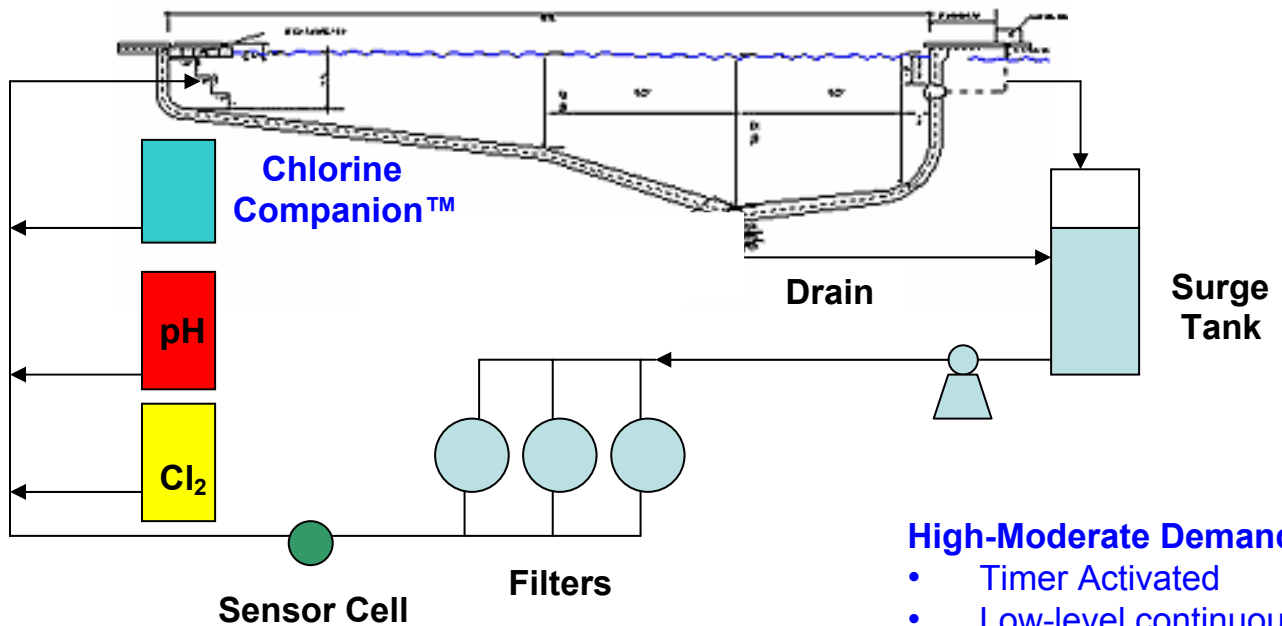
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Chlorine Companion™ Recommended Feed



Low Demand

- Manual Broadcast

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Chlorine Companion™ Feed System Examples

