CHLORINE FREE

BAQUACIL®

Pool Care & Water Testing Guide

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Product Quality.
Chemical Superiority.

BAQUACIL® Pool Care System provides protection against bacteria and algae – the perfect solution for those pool owners looking for a chlorine alternative. It's a differentiated category leader, providing unique solutions perfect for customers with any type of pool; in-ground, above-ground, fiberglass, vinyl or plaster. Pool owners can convert to a chlorine-free BAQUACIL® pool in as little as 24 hours without a need to drain the pool. And, the chemistry of BAQUACIL® products is not affected by sunlight or heat, lasting longer to give pool owners consistent bacteria control.

BAQUACIL® CDX® Pool Care System

Come on in...

The benefits of the **BAQUACIL®** Pool Care system are many. First, the chlorine-free formulation is gentle and non-irritating to eyes and skin, it's gentle on swimsuits and pool liners. The **BAQUACIL®** system keeps water clear, silky and soft, and most of all, it's easy to use.

With the enhanced **BAQUACIL® CDX®** System, you have even greater assurance of crystal clear water throughout the season. Research and development has shown the best way to maintain clear water throughout the swimming season is to maintain a **BAQUACIL®** Oxidizer residual. The **BAQUACIL® CDX®** System does just that. And, like the standard **BAQUACIL®** System, it's hassle-free, chlorine-free and easy to use. While the **CDX®** System will not take the place of regular pool and filter maintenance, it does provide the best system for pools treated with **BAQUACIL®**. If you currently use the standard **BAQUACIL®** Pool Care System or if you've used **BAQUACIL®** in the past, we think you are going to love the **BAQUACIL® CDX®** System.

A specially formulated product that is designed to maintain a residual BAQUACIL® Oxidizer level in pool water. BAQUACIL® CDX® product is **step 3 in the 3-step BAQUACIL® CDX® system**.

System Overview

The **BAQUACIL® CDX®** System is a simple, **weekly, 3-step, 3-product, chlorine free system**. Maintaining an oxidizer residual is key to keeping water clear all summer long. The weekly addition of **BAQUACIL® CDX®** product is designed to prevent rapid consumption of the oxidizer.

1. **BAQUACIL® Sanitizer and Algistat**
   - Keep levels between 40 and 50 ppm.
   - When the level is 40 ppm or less, add **BAQUACIL® Sanitizer and Algistat** to bring the level up to 50 ppm. Never let the level fall below 40 ppm. Heavy rain may dilute the sanitizer and allow bacteria to grow.
2. **BAQUACIL® Oxidizer**
   - Add weekly.
   - If the Oxidizer level is 0 ppm for two consecutive weeks consult your authorized pool dealer. This may be indicating the need to chemically clean the filter.
3. **BAQUACIL® CDX® Product**
   - Add weekly to the skimmer with the pump running.
   - Always add the **BAQUACIL® CDX®** IMMEDIATELY AFTER the addition of the Oxidizer.

BAQUACIL® 4-Way Test Strips include an Oxidizer test pad. This will enable you to identify whether there is a **BAQUACIL®** Oxidizer residual present in the water and it also acts as an early warning that there may be contaminants present in the pool filter and/or plumbing before the water becomes cloudy.

Algae Prevention

With the **BAQUACIL® CDX®** System, no regular use of algaecide is called for, but in areas where algae problems are prevalent we recommend you introduce an algae preventative program using either **BAQUACIL®** Algidefense® or **BAQUACIL®** Algicide. Be sure to follow the label instructions for dosing recommendations.

Starting Your New or Freshly Filled Pool

Starting a new or freshly filled pool on the BAQUACIL® CDX® System

1.	Fill your pool with water. If this is a brand new pool, proceed to step-2. If this is an existing pool, perform any necessary filter maintenance:
	    a. D.E. & Cartridge Filters - Chemically clean the D.E. grids or cartridge with **BAQUACIL® Universal Filter Cleaner** or replace the cartridge.
	    b. Sand Filters - Chemically clean the sand with **BAQUACIL® Universal Filter Cleaner** or replace the sand.

2.	Get your pump and filter started, then brush and vacuum your pool. Let your filter run for 24 hours to catch all the debris.
3.	Calculate the volume of your pool so you can determine the right amount of chemicals. Your Authorized **BAQUACIL® Dealer** will be able to calculate the volume for you if you measure the length, width, and depth of your pool.
4.	Take a pool water sample to your Authorized **BAQUACIL® Dealer** for complete analysis. *(See page 29 for water testing tips)*. If your dealer finds that your pool water contains metals, add **BAQUACIL® Metal Control** as follows: For every 2 ppm of metals present and for every 10,000 gallons of water, use 1 bottle (1 1/4 pounds). Allow the water to circulate for 8-12 continuous hours. All plaster pools must be treated with **BAQUACIL® Metal Control** at a rate of 1 bottle per 10,000 gallons of water, regardless of metal analysis results.
5.	Add **BAQUACIL® Sanitizer** and **BAQUACIL® Algistat** to the pool to achieve a 50 ppm level. See chart below for dosing instructions.
6.	Add the start-up dose of **BAQUACIL® Oxidizer**. *(See the Start-Up Dosage chart below)*.
7.	Add the start-up dose of **BAQUACIL® CDX®** product. *(See the Start-Up Dosage chart below)*.
8.	Begin weekly routine pool care. (*See page 18 for further details*).

IMPORTANT: Always add the **BAQUACIL® CDX®** immediately after the addition of the **BAQUACIL® Oxidizer.**

Start-Up Dosages

Gallons	BAQUACIL® SANITIZER & ALGISTAT	BAQUACIL® OXIDIZER	BAQUACIL® CDX®
5,000	2 pints	1/2 gal	1 pint
10,000	4 pints	1 gal	1 pint
15,000	6 pints	1 1/2 gal	2 pints
20,000	8 pints	2 gal	2 pints
25,000	10 pints	2 1/2 gal	3 pints
30,000	12 pints	3 gal	3 pints
35,000	14 pints	3 1/2 gal	4 pints
40,000	16 pints	4 gal	4 pints
50,000	20 pints	5 gal	5 pints

NOTE: Always read and follow product labels carefully.

Converting Your Chlorine or Bromine Pool

Converting your pool from chlorine or bromine to the BAQUACIL® CDX® System

1.	After your pool water has been properly balanced, remove the source of chlorine or bromine (stick, tablets, etc.) and make no further additions of these products.
2.	Neutralize the chlorine or bromine. **a.** Add 1 gallon of **BAQUACIL® Oxidizer** for every 10,000 gallons of pool water. Allow the water to circulate for 8-12 continuous hours. Verify that the free chlorine level is 0, by using a "DPD"-type testing kit with a DPD #1 tablet. **b.** If the water is cloudy (algae or haze), the pool should be treated with **BAQUACIL® Oxidizer** to help clear up the pool faster.
3.	Take a pool water sample to your Authorized **BAQUACIL® Dealer** for complete analysis. *(See page 29 for water testing tips)*. If your dealer finds that your pool water contains metals, add **BAQUACIL® Metal Control** as follows: For every 2 ppm of metals present and for every 10,000 gallons of water, use 1 bottle (1 1/4 pounds). Allow the water to circulate for 8-12 continuous hours.
4.	Add **BAQUACIL® Sanitizer** and **BAQUACIL® Algistat** to the pool to achieve a 50 ppm level. See chart below for dosing instructions.
5.	Add the start-up dose of **BAQUACIL® Oxidizer.** *(See the Start-Up Dosage chart below).*
6.	Add the start-up dose of **BAQUACIL® CDX®.** *(See the Start-Up Dosage chart below).*
7.	Begin weekly routine pool care. *(See page 18 for further details).*

NOTE: All plaster pools must be treated with **BAQUACIL® Metal Control** at a rate of 1 bottle per 10,000 gallons of water, regardless of metal analysis results.

Start-Up Dosages

Gallons	BAQUACIL® SANITIZER & ALGISTAT	BAQUACIL® OXIDIZER	BAQUACIL® CDX®
5,000	2 pints	1/2 gal	1 pint
10,000	4 pints	1 gal	1 pint
15,000	6 pints	1 1/2 gal	2 pints
20,000	8 pints	2 gal	2 pints
25,000	10 pints	2 1/2 gal	3 pints
30,000	12 pints	3 gal	3 pints
35,000	14 pints	3 1/2 gal	4 pints
40,000	16 pints	4 gal	4 pints
50,000	20 pints	5 gal	5 pints

NOTE: Always read and follow product labels carefully.

Converting Your Standard BAQUACIL® Pool

Converting your pool from a standard BAQUACIL® System to the BAQUACIL® CDX® System

1.	Perform any necessary filter maintenance: **a.** Cartridge Filters - Chemically clean the cartridge with **BAQUACIL® Universal Filter Cleaner** or replace the cartridge. **b.** D.E. Filters - Chemically clean the filter elements with **BAQUACIL® Universal Filter Cleaner.** **c.** Sand Filters - Replace the sand in the filter
2.	Take a pool water sample to your Authorized **BAQUACIL® Dealer** for complete analysis. *(See page 29 for water testing tips).* If your dealer finds that your pool water contains metals, add **BAQUACIL® Metal Control** as follows: For every 2 ppm of metals present and for every 10,000 gallons of water, use 1 bottle (1 1/4 pounds). Allow the water to circulate for 8-12 continuous hours.
3.	Add **BAQUACIL® Sanitizer** and **BAQUACIL® Algistat** to the pool to achieve a 50 ppm level. See chart below for dosing instructions.
4.	Add the start-up dose of **BAQUACIL® Oxidizer**. *(See the Start-Up Dosage chart below).*
5.	Add the start-up dose of **BAQUACIL® CDX®** product. *(See the Start-Up Dosage chart below).*
6.	Begin weekly routine pool care. *(See page 18 for further details).*

NOTE: a. Always read and follow product labels carefully.

b. Always add BAQUACIL® CDX® product immediately after the addition of BAQUACIL® Oxidizer.

All plaster pools must be treated with **BAQUACIL® Metal Control** at a rate of 1 bottle per 10,000 gallons of water, regardless of metal analysis results.

Start-Up Dosages

Gallons	BAQUACIL® OXIDIZER	BAQUACIL® CDX®
5,000	1/2 gal	1 pint
10,000	1 gal	1 pint
15,000	1 1/2 gal	2 pints
20,000	2 gal	2 pints
25,000	2 1/2 gal	3 pints
30,000	3 gal	3 pints
35,000	3 1/2 gal	4 pints
40,000	4 gal	4 pints
50,000	5 gal	5 pints

NOTE: Always read and follow product labels carefully.

Converting Your Plaster Finished Pool

When starting a plaster pool on the BAQUACIL® CDX® System

It is important to eliminate potentially damaging trace metals from the pool water.

Use BAQUACIL® Metal Control after the chlorine is neutralized and before you add BAQUACIL® Sanitizer and Algistat to the pool.

All plaster pools must be treated with **BAQUACIL® Metal Control** regardless of metal analysis results. Plaster pools are particularly susceptible to scale buildup and metal staining on the surface as a result of continued exposure to improperly balanced water. The scale may appear as rough patches on the plaster surface and may vary in color. If you see existing metal stain discoloration, do not convert to the **BAQUACIL® CDX®** System unless the pool surface is properly treated (acid washing, sandblasting, etc.) to remove the accumulated deposits.

For instructions on how to add the **BAQUACIL® CDX®** System products, follow points 4, 5, 6 and 7 on page 8. Also, refer to the dosage chart on page 9. For further assistance, see your Authorized **BAQUACIL®** Dealer.

IMPORTANT: Since trace metals are commonly found in water sources, add **BAQUACIL® Metal Control** at the rate of 1 bottle (1 1/4 pounds) for every 10,000 gallons whenever significant amounts of makeup water are added to the pool.

IMPORTANT
BAQUACIL® Sanitizer and Algistat is a unique swimming pool sanitizer which may not be compatible with some of the chemicals you have been using. Consult your Authorized **BAQUACIL®** Dealer before adding supplemental chemicals. DO NOT USE **BAQUACIL® Sanitizer and Algistat** in unpainted/unsurfaced plaster pools with pre-existing metal stains without taking proper remedial actions first. (See WHEN STARTING A PLASTER POOL ON THE **BAQUACIL® CDX® SYSTEM**). Do not use **BAQUACIL® Sanitizer and Algistat** in freestanding spas or hot tubs.

NOTE
After the addition of **BAQUACIL® Sanitizer and Algistat**, the water may become hazy. This haze should clear within 24-48 hours with continuous filtration.

Pool Opening

If your pool has already been converted to the **BAQUACIL® CDX®** System, it's easy to open it for the season. Just follow these simple steps:

1. If you use a solid pool cover, first drain off any standing water so that it doesn't spill back into the pool. Carefully remove the cover, sweep it and lay it out to dry. Once it is thoroughly dry, fold and store the cover in a clean, dry place, out of direct sunlight. Inspect the entire pool carefully for damage that may have taken place during the off-season - especially leaks and tears in the vinyl liner or breaks and cracks in the plaster or tiles. After inspection, add water until the level reaches about halfway up the skimmer opening. Remove any debris with a leaf net.

2. Make sure your pump, skimmer and filter are working properly. If the filter was not cleaned at the end of last season, clean it using **BAQUACIL® Universal Filter Cleaner** to remove hardened deposits which can hamper filter performance. Brush and vacuum the pool thoroughly.

3. After running the pump for at least five hours, take a water sample in a clean plastic container to your Authorized **BAQUACIL® CDX®** System Dealer for a comprehensive water analysis. Your dealer will provide easy instructions to make any necessary adjustments to your pool's water balance.

NOTE
For unpainted plaster pools, add a full dose of **BAQUACIL® Metal Control**. Circulate for 8 hours.

4. Add **BAQUACIL® CDX®** System products to your pool. See below.
   • Top-up **BAQUACIL® Sanitizer and Algistat** to 50 ppm. (See page 19 for Top-Up Dosage Chart).
   • Add a start-up dose of **BAQUACIL® Oxidizer**. (See Start-Up Dosage Chart on page 11).
   • Add a start-up dose of **BAQUACIL® CDX®**(See Start-Up Dosage Chart on page 11).

Water Balance

Keeping your pool water balanced

Maintaining your pool water in the proper balance pays big rewards. First, water that has its key chemical factors in the appropriate balance range makes for very comfortable swimming. Second, balanced water makes pools easier to maintain. Properly balanced swimming pool water meets the following criteria:

IDEAL RANGES

pH: 7.2–7.8
- Metals: none
- Total Alkalinity: 80–150 ppm
- Calcium Hardness:
    180–250 ppm (vinyl pools)
    200–275 ppm (plaster pools)
- Total Dissolved Solids: less than 2,000 ppm

Your Authorized **BAQUACIL®** Dealer carries the full range of **BAQUACIL®** Pool Care SystemBalance Chemicals, specially designed to make water balance adjustments quick and easy.

As with all pool chemicals, follow the instructions and precautions on the labels of all **BAQUACIL®** Pool Care System Balance Chemicals products. Use your **BAQUACIL® 4-Way Test**

Strips to check your water's pH and alkalinity once a week, or after any major change (such as when you add a large amount of new water, or after a long, heavy rain).
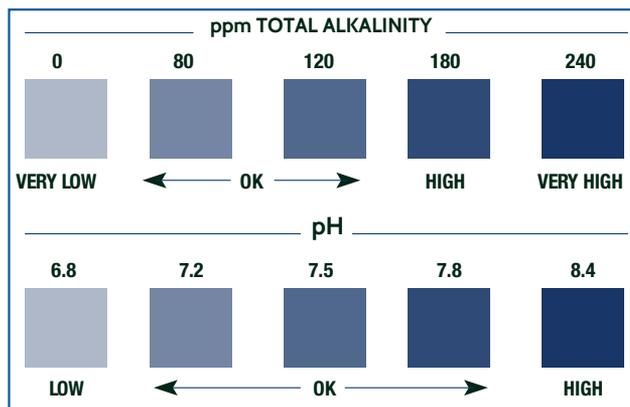
TOTAL ALKALINITY CONTROL
The amount of alkalinity in your water can affect swimmers' comfort. High alkalinity will push the pH reading upward, while low alkalinity can promote pool corrosion and cause "pH bounce," which is a large change in the pH reading after you add adjustment chemicals. The ideal total alkalinity range is 80–150 ppm. Always test and adjust the total alkalinity level before adjusting the pH. *See image on page 16.*

pH CONTROL
pH is a measure of the acidity or basicity of the water and is measured on a scale ranging from 0–14. Swimming pool water should have just a little basicity with a pH reading between 7.2 and 7.8. *See image on page 16.*

If pool water is too basic, scale can develop – particularly in hard water areas. If it is too acidic, the water can become corrosive. *See image on page 16*

Water Balance

ppm TOTAL ALKALINITY				
0	80	120	180	240
VERY LOW	← OK →		HIGH	VERY HIGH

pH				
6.8	7.2	7.5	7.8	8.4
LOW	← OK →			HIGH

Calcium Hardness Control

Calcium hardness also affects the balance of your pool water. Low calcium hardness will promote corrosion. High calcium hardness can cause cloudiness and scaling. The ideal calcium hardness content is 200–275 ppm for plaster pools, and 180–250 ppm for all other types.
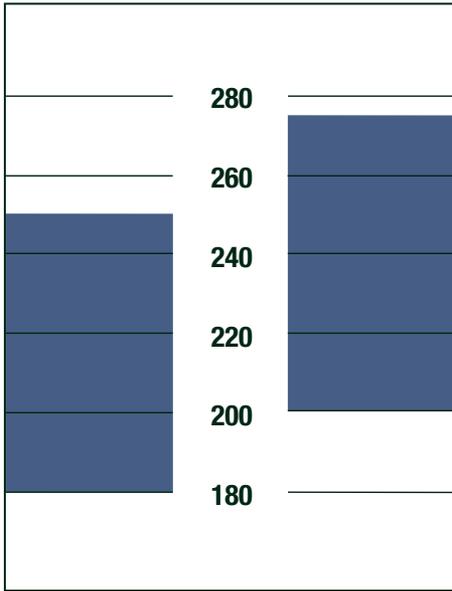
Take a water sample to your Authorized **BAQUACIL®** Dealer if you have a calcium hardness problem. It is not uncommon to find metals, often called free metals, dissolved in pool water. Usually they come from source water – sometimes they are a result of the erosion of metal pool fixtures, such as heater cores.

Free metals in pool water can cause staining of pool surfaces and inhibit the performance of water sanitizers. Ideally, there should be no metals in the water: 0 ppm.

Your Authorized **BAQUACIL®** Dealer can determine the presence of free metals in your water. If metals are detected, **BAQUACIL® Metal Control** can be used to "sequester" them, rendering them harmless.
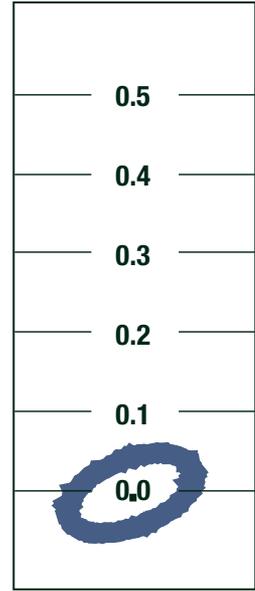
Water Balance Charts

280	0.5
260	0.4
240	0.3
220	0.2
200	0.1
180	0.0

CALCIUM HARDNESS: VINYL POOLS

CALCIUM HARDNESS: PLASTER POOLS

METALS (ppm)

Ideal

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Weekly Maintenance

The **BAQUACIL® CDX®** System includes three key components that work together to save you time and maintenance: **BAQUACIL® Sanitizer and Algistat**, **BAQUACIL® Oxidizer**, and **BAQUACIL® CDX®**. See the next page for easy to follow weekly use instructions.

NOTE
To maintain good water clarity, it is important that the **BAQUACIL® CDX®** product is added IMMEDIATELY following the Oxidizer. Always add the **BAQUACIL® CDX®** product to the skimmer with the pump running.

IMPORTANT
On a weekly basis, it is recommended that you test and adjust your water balance readings to within the ideal ranges discussed on page 15. Be sure to use your **BAQUACIL® 4-Way Test Strips** that test for the presence of Oxidizer. Perform the housekeeping tasks discussed on page 22. When the water balance levels are within the recommended ranges, follow your **BAQUACIL® CDX®** System routine outlined on the next page.

Top-Up Dosage Rates For BAQUACIL® Sanitizer And Algistat

If the ppm level is:

Gallons	40	35	30	25	20	15	10	5	0
7,500	3/4	1	1 1/4	1 1/2	1 3/4	2 1/4	2 1/2	2 3/4	3
10,000	3/4	1 1/4	1 3/4	2	2 1/2	2 3/4	3 1/4	3 3/4	4
12,500	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
15,000	1 1/4	1 3/4	2 1/2	3	3 3/4	4 1/4	4 3/4	5 1/2	6
17,500	1 1/2	2 1/4	2 3/4	3 1/2	4 1/4	5	5 3/4	6 1/4	7
20,000	1 3/4	2 1/2	3 1/4	4	4 3/4	5 1/2	6 1/2	7 1/4	8
22,500	1 3/4	2 3/4	3 3/4	4 1/2	5 1/2	6 1/4	7 1/4	8 1/4	9
25,000	2	3	4	5	6	7	8	9	10
27,500	2 1/4	3 1/4	4 1/2	5 1/2	6 3/4	7 3/4	8 3/4	10	11
30,000	2 1/2	3 3/4	4 3/4	6	7 1/4	8 1/2	9 3/4	10 3/4	12
32,500	2 3/4	4	5 1/4	6 1/2	7 3/4	9 1/4	10 1/2	11 3/4	13
35,000	2 3/4	4 1/4	5 3/4	7	8 1/2	9 3/4	11 1/4	12 3/4	14
37,500	3	4 1/2	6	7 1/2	9	10 1/2	12	13 1/2	15
40,000	3 1/4	4 3/4	6 1/2	8	9 3/4	11 1/4	12 3/4	14 1/2	16
42,500	3 1/2	5 1/4	6 3/4	8 1/2	10 1/4	12	13 3/4	15 1/4	17
45,000	3 3/4	5 1/2	7 1/4	9	10 3/4	12 3/4	14 1/2	16 1/4	18
47,500	3 3/4	5 3/4	7 3/4	9 1/2	11 1/2	13 1/4	15 1/4	17 1/4	19
50,000	4	6	8	10	12	14	16	18	20

NOTE: Always read and follow product labels carefully.
NOTE: Dosages are in pints

Weekly Maintenance BAQUACIL® Program

1. BAQUACIL® Sanitizer and Algistat
- Check weekly and top-up if necessary.
- Keep sanitizer levels between 40 and 50 ppm.
- Do not allow sanitizer level to drop below 40 ppm.
- Refer to top-up dosage chart on previous page.

2. BAQUACIL® Oxidizer
- Add weekly.
- 1 quart per 10,000 gallons of pool water.
- Refer to dosage chart below.

3. BAQUACIL® CDX® product
- Add weekly.
- 1 pint per 10,000 gallons of pool water.

- Refer to dosage chart below.
- Always add **BAQUACIL® CDX®** product **IMMEDIATELY AFTER** the addition of the Oxidizer.
- After addition of **BAQUACIL® CDX®**, wait 15 minutes before swimming to ensure that the product is completely dispersed throughout the pool.

Algae Prevention:
In regions with high summer temperatures or pools with a history of algae problems, we recommend that you introduce an algae preventative program. Use **BAQUACIL® Algidefense** or **BAQUACIL® Algicide**. Follow the label directions for a preventative algae program.

Weekly Maintenance Dosage Rates

Gallons	BAQUACIL® OXIDIZER (quarts)	BAQUACIL® CDX® (pints)
5,000	1	1/2
7,500	1	3/4
10,000	1	1
12,500	2	1 1/4
15,000	2	1 1/2
17,500	2	1 3/4
20,000	2	2
22,500	3	2 1/4
25,000	3	2 1/2
27,500	3	2 3/4
30,000	3	3
32,500	4	3 1/4
35,000	4	3 1/2
37,500	4	3 3/4
40,000	4	4
42,500	5	4 1/4
45,000	5	4 1/2
47,500	5	4 3/4
50,000	5	5

General Pool Care

The **BAQUACIL® CDX®** Pool Care System makes pool care easy. Even so, there are certain basic things you should do regularly to avoid potential problems with your pool. These include housekeeping (see below), checking water balance & sanitization (see page 15).

HOUSEKEEPING

- Vacuum and brush your pool weekly.
- Run the filter at least 8-12 continuous hours a day during the season, longer during periods of heavy use or after a heavy rain.
- Clean around the tile and water line.
- Keep the skimmer and pump baskets clear of leaves and debris – check at least weekly.
- Check the filter pressure. If high, backwash and rinse the filter – always be guided by your manufacturers recommendations.
- Chemically clean the filter at least twice during the season with **BAQUACIL® Universal Filter Cleaner**. This is a key process in keeping your pool water clear throughout the season.
- For extended swimming season the filter should be cleaned 3 times a season.

Algae Prevention:
In regions with high summer temperatures or pools with a history of algae problems, we recommend that you introduce an algae preventative program. Use **BAQUACIL® Algidefense** or **BAQUACIL® Algicide**. Follow the label directions for a preventative algae program.

WATER TESTING BY YOUR AUTHORIZED BAQUACIL® DEALER

There will be times when you take a water sample to your Authorized **BAQUACIL®** Dealer for professional analysis. For example, after you add a significant amount of new water, or after a heavy rain. In fact, it's a good idea to take a sample to your Authorized **BAQUACIL®** Dealer about once a month during the season. Here are a few guidelines to help ensure a good water sample:

1. Take your sample about 18" below the surface, and away from the skimmer or filter returns.
2. Take the sample in a **BAQUACIL®** Pool Care System Water Sample Bottle, or in a **clean plastic container**.
3. Take the sample to your Authorized **BAQUACIL®** Dealer **as soon as you remove it from the pool**; don't let the water sit.

NOTE: Never take a pool water sample immediately after adding chemicals or after adding significant amounts of makeup water. Always allow the water to circulate for 8–12 hours before taking a sample.

IMPORTANT: When handling chemicals, always follow the label instructions. Remember, not all pool care products are compatible with **BAQUACIL®** Sanitizer and **Algistat**. Consult your Authorized **BAQUACIL®** Dealer before adding supplemental chemicals.

Filter Cleaning

HOW TO CHEMICALLY CLEAN YOUR FILTER

For best filter operation, it is important to clean your filter twice a season. As your filter circulates pool water, it collects all types of debris — organic matter, waste, scale, rust, grease and grime that, if left unchecked, will hinder filtration and lead to a cloudy, unattractive pool.

While backwashing or rinsing will remove larger particles, only chemical cleaning will remove the grease and grime that become embedded in the filter element (D.E. filters), stick to the cartridge (cartridge filters), or adhere to the sand (sand filters).

To ensure optimal filtration and good water quality, you should chemically clean your filter twice a season with **BAQUACIL® Universal Filter Cleaner**. This cleaner will dissolve and remove collected debris from sand filters and free-up plugged D.E. filter grids and cartridge filter elements. Here's how to use them to chemically clean each filter type.

DIRECTIONS FOR USE

To ensure good pool water quality and optimal filtration, clean your filter at least twice a swimming season with **BAQUACIL® Universal Filter Cleaner** Clean your filter in the spring if not done the previous year. This product is especially effective in cleaning filters on pools treated with **BAQUACIL® Sanitizer and Algistat**.

SAND FILTER

Backwash filter and then remove water from pump basket and pour in 1/2 gallon (1 bottle) of **BAQUACIL® Universal Filter Cleaner**. Turn pump on and backwash into the filter. When water appears in the backwash sight glass or from air release valve, turn off pump. Let product soak in filter overnight. After soaking, backwash filter throughly. Avoid getting this product into the pool.

NOTE: Before backwashing, distribute several pounds of **BAQUACIL® Total Alkalinity Increaser** on the ground in the backwash area to neutralize the pH. Place the multi-port valve in the backwash position and backwash until water in the sight glass is clean. Resume normal operation.

CARTRIDGE FILTERS AND D.E. FILTERS

In a clean plastic container pour 1/2 gallon (1 bottle) of **BAQUACIL® Universal Filter Cleaner** in 5 gallons of water.

For D.E. filters, backwash thoroughly and then remove the D.E. grids. For cartridge filters, remove the cartridge(s) and rinse off any loose debris. Soak the D.E.grids/cartridge(s) overnight in the **BAQUACIL® Universal Filter Cleaner** solution. Be sure grids or cartridges are entirely immersed in the cleaning solution. After soaking, remove and rinse thoroughly with water, then replace elements and resume normal operation.

NOTE: Neutralize the acid solution prior to disposal. Very slowly add **BAQUACIL® Total Alkalinity Increaser** to the solution until foaming subsides. This process should take a minimum of 15 minutes.

Winterizing Your Pool

If you live in an area where you have to close your pool for the winter, you need to close it properly to protect it. Always follow your pool manufacturer's instructions for winterization of your pool and equipment. To help protect the water, here are some simple steps you should follow:

HOUSEKEEPING

1. Check your water balance. Take a sample of your water to your Authorized **BAQUACIL**® Dealer, who will analyze it and recommend any adjustments that may be needed.
2. Perform all necessary housekeeping. Brush and vacuum your pool thoroughly. Clean all around the tile and/or waterline, as well as the skimmer box.

CLOSE YOUR POOL

1. Sanitize and clarify the water. After making any adjustments your Authorized **BAQUACIL**® Dealer might have recommended, just follow this simple process:
   - Top-up the **BAQUACIL**® **Sanitizer and Algistat** level to 50 ppm.
   - Add a start-up dose of **BAQUACIL**® **Oxidizer**.
   - Add a maintenance dose of **BAQUACIL**® **CDX**® product.
   - Run the pool filter 8-12 continuous hours to make sure the chemicals have circulated thoroughly.
2. Backwash and chemically clean your filter with **BAQUACIL**® **Universal Filter Cleaner**. Never store a dirty filter because deposits may harden during the winter, leaving you with a much harder job in the spring. These cleaners will remove organic and mineral deposits, leaving your filter ready for the next season.
3. Follow your pool manufacturer's recommendations for winterizing. Additionally, clean the skimmer basket and the pump's hair/lint strainer basket. Store the baskets in a safe place.
4. Cover your pool. Use a well-fitted, undamaged cover designed specifically for your pool. This will keep leaves and other airborne debris out of the water.
5. Run the filter for 4-6 continuous hours a day if water is above the skimmer.

WARMER CLIMATE WINTER MAINTENANCE

In some areas, pool owners leave pools running year-round. As pool usage ends in the cooler weather, they will need to follow these instructions:

HOUSEKEEPING

Follow the same directions as under Housekeeping in previous column.

ENDING THE SEASON

- Sanitize and clarify the water as noted above.
- Backwash and clean your filter with **BAQUACIL**® **Universal Filter Cleaner** as directed under Close Your Pool in previous column.

MAINTENANCE FOR NON-SWIMMING MONTHS

- Check the level of **BAQUACIL**® **Sanitizer and Algistat** and the pH level every two weeks and top-up or adjust as necessary.
- Add a maintenance dose of **BAQUACIL**® **Oxidizer** only as needed (after heavy rain or other extreme environmental factors).
- If Oxidizer is added – follow immediately with a maintenance dose of **BAQUACIL**® **CDX**® product.
- Run the filter system 4-6 continuous hours a day.
- Remove leaves and debris from the pool as necessary.
- Test water sample every two months.

Pool Solution Center

The **BAQUACIL® CDX®** System was developed to give you a clear, sparkling pool all summer long. Even so, problems can occur on occasion, and the treatment required may not be the same as for a chlorine treated pool. If you have any questions, consult your Authorized **BAQUACIL®** Dealer.

1. ALGAE

BAQUACIL® Sanitizer and Algistat, in addition to its effectiveness as a sanitizer, generally will give good algae control. However, should algae develop, follow these steps:

1. Brush pool walls and floor daily, and filter regularly during treatment, until your pool is free from visible algae.
2. Chemically clean your filter using **BAQUACIL® Universal Filter Cleaner**.

NOTE: *If the pool shows moderate to heavy algae growth, use BAQUACIL® Flocculant as a broadcast flocculant to remove as much of the algae as possible before beginning chemical treatment. Follow label instructions for use as a broadcast flocculant.*

3. Check the level of **BAQUACIL® Sanitizer and Algistat** and top-up to 50 ppm if necessary.
4. Add 1 gallon of **BAQUACIL® Oxidizer** per 10,000 gallons of pool water.
5. Add 1 bottle of **BAQUACIL® Algicide** per 10,000 gallons of pool water.
6. Run the pool filter continuously for 24 hours.
7. After 24 hours, vacuum your pool to remove the algae debris, and clean your filter, if necessary.

If these steps fail, contact your Authorized **BAQUACIL®** Dealer regarding alternate treatments for persistent algae. Depending on the severity of the algae growth, it may be necessary to repeat these treatments. If you live in an area where algae is common or you have recurring algae problems, it may be necessary to use a weekly maintenance algaecide, such as **BAQUACIL® Algidefense** or **BAQUACIL® Algicide**.

2. FOAM

Sometimes foam will be caused by a simple mechanical defect, such as a leak in the plumbing/filter pump. So it's a good idea to check for leaks first.

You should also check the calcium hardness level, to be sure your water is in balance. If there are no leaks, and the calcium hardness level is acceptable, test your water for the **BAQUACIL® Sanitizer and Algistat**. If it is too high (above 50 ppm), or if your water has an almond-like taste (which would indicate too much **BAQUACIL® Algicide**), you'll need to reduce those levels. To do this, partially empty your pool, then refill it with fresh source water. If the tests show your water is within all the proper ranges, you can use an antifoaming agent. Consult your Authorized **BAQUACIL®** Dealer for details.

3. WATERLINE RING

Organic debris tends to accumulate around the waterline of all swimming pools. Due to the chemical nature of **BAQUACIL® Sanitizer and Algistat**, you may have slightly heavier deposits, especially during the first few weeks after converting to the **BAQUACIL® CDX®** System. Clean the waterline as needed.

4. CLOUDY WATER

One of the major causes of hazy pool water is lack of adequate filtration. If your filter is dirty or clogged, it can't operate at peak efficiency. And sometimes, backwashing alone won't get it really clean. In fact, backwashing a sand filter too often may actually reduce its effectiveness.

That's why you should deep-clean your filter chemically twice during the swimming season with **BAQUACIL® Universal Filter Cleaner**. **If you can still see the bottom of your pool,**

follow these steps:

1. Check for an Oxidizer level using **BAQUACIL® 4-Way Test Strips**.
   a. If there is Oxidizer present, check your water balance, filter operation and use **BAQUACIL® Flocculant** as a filter aid to restore clarity to the pool.
   b. If there is no Oxidizer present, proceed to the next step.
2. Add **BAQUACIL® Flocculant** to the skimmer as a filter aid, following the label instructions.
3. Add 1 gallon of **BAQUACIL® Oxidizer** per 10,000 gallons of pool water directly in front of the skimmer. Proceed immediately to next step.
4. Add 1 pint of **BAQUACIL® CDX®** product per 10,000 gallons of pool water directly into the skimmer.
5. Check the Sanitizer level using **BAQUACIL® 4-Way Test Strips** and top-up to 50 ppm if necessary.
6. Chemically clean the filter using **BAQUACIL® Universal Filter Cleaner**.

If you cannot see the bottom of your pool, follow these steps:

1. Check for an Oxidizer level using **BAQUACIL® 4-Way Test Strips**.
   a. If there is Oxidizer present, check your water balance, filter operation and use **BAQUACIL® Flocculant** as a filter aid to restore clarity to the pool.
   b. If there is no Oxidizer present, proceed to Step 2.
2. Use **BAQUACIL® Flocculant** as a broadcast flocculant, following the label instructions.
3. While waiting for the flocculant to settle, chemically clean the filter using **BAQUACIL® Universal Filter Cleaner**.
4. Once you have vacuumed any settled flocculant and debris to waste and gotten the filter running again, add 1 gallon of **BAQUACIL® Oxidizer** per 10,000 gallons of pool water directly the pool. Proceed immediately to next step.
5. Add 1 pint of **BAQUACIL® CDX®** per 10,000 gallons of pool water directly in front of the skimmer.
6. Check the Sanitizer level using **BAQUACIL® 4-Way Test Strips** and top-up to 50 ppm if necessary.

5. PREVENTING CLOUDY WATER

1. Run your filter 8-12 continuous hours a day.
2. Use **BAQUACIL® Universal Filter Cleaner** twice during the season to keep your filter operating properly.
3. Have your Authorized **BAQUACIL®** Dealer analyze your water once a month.
4. Always perform routine housekeeping.

6. WATER MOLD/SLIME

If your pool is experiencing water clarity problems due to water mold or slime, follow the steps listed above for treating cloudy water.

7. UNABLE TO MAINTAIN OXIDIZER

If your pool's Oxidizer level is 0 the first week add a start-up dose of **BAQUACIL® Oxidizer** and top-up the **BAQUACIL® Sanitizer** to 50 ppm if necessary. If your pool's Oxidizer level is 0 ppm for two weeks in a row, it may be a sign that your filter needs to be chemically cleaned or the media needs to be replaced. If you have a sand filter and the sand is over two years old, replace the sand. If the sand is relatively new, chemically clean the filter using **BAQUACIL® Universal Filter Cleaner**. If you have a D.E. or cartridge filter, chemically clean the filter using **BAQUACIL® Universal Filter Cleaner**.

8. EYE IRRITATION

BAQUACIL® Sanitizer and Algistat is much less likely to cause irritation than chlorinating chemicals. Eye or skin irritation can vary from individual to individual. If you get complaints from several swimmers, you should check the **BAQUACIL® Sanitizer and Algistat** levels and have your Authorized **BAQUACIL®** Dealer do a complete water analysis. If the water is in balance, but the **BAQUACIL® Sanitizer and Algistat** level exceeds 50 ppm, you should reduce that level.

To do this, partially empty your pool, then refill it with fresh source water. As always, consult your Authorized **BAQUACIL®** Dealer.

9. TASTE

Too much **BAQUACIL® Sanitizer and Algistat** will make swimming pool water taste dry and bitter. Too much **BAQUACIL® Algicide** will give an almond-like taste and smell. If either of these tastes should occur, you'll have to reduce the chemical's level.

To do this, partially empty your pool; then refill it with fresh source water. Again, remember to consult your Authorized **BAQUACIL®** Dealer for details.
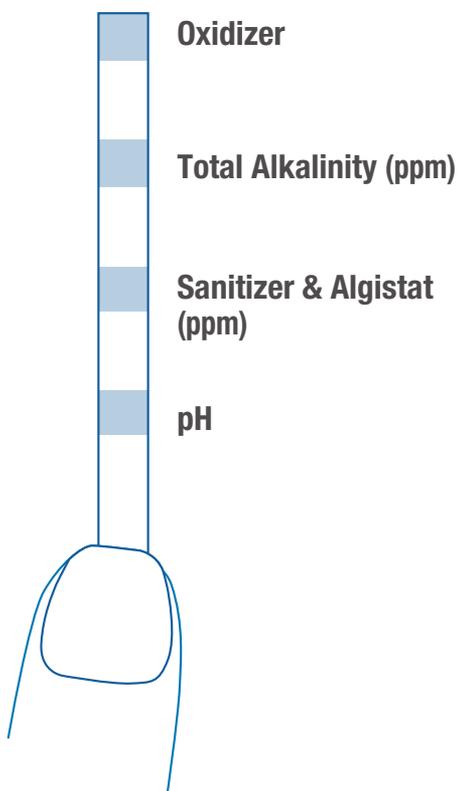
Safety

Chemicals are necessary to control bacteria and algae and to maximize the life of your pool and its equipment. However, in concentrated form, chemicals can be hazardous. Always handle and use them with care. Refer to the product's label for safety and handling information.

The Pool & Spa Products Business of Innovative Water Care wholeheartedly endorses the safety guidelines of the Association of Pool & Spa Professionals (APSP). Here are a few good suggestions to follow:

- Keep all containers of chemicals in an upright position. (**NOTE: BAQUACIL® Oxidizer** is a strong oxidizer. The **BAQUACIL® Oxidizer** container has a vented cap. Storing **BAQUACIL® Oxidizer** on its side or upside down may result in leakage or rupture. This could start a fire if it touches combustible materials. Always triple-rinse the **BAQUACIL® Oxidizer** container in regular pool water before you dispose of it).
- In case of spill or accidental contact, follow the label directions.
- Do not overdose products. Follow all label directions carefully.
- Keep all chemicals out of reach of children.
- Store chemicals in a cool, well-ventilated area away from combustible materials. Do not store chemicals in a motor vehicle.
- Never mix chemicals together. Always add each by itself. Always add chemicals to water; never add water to chemicals.
- Keep containers closed when not in use, and use each cap only with its own container.
- Avoid contact with skin or eyes. Wear safety goggles and rubber gloves when handling chemicals.
- Add only the amount of chemicals specified.
- When adding chemicals, always read label for specific instructions. Many chemicals are added by spreading them around the water's edge or around pool inlet while the filter is running.
- In case of contact or accidental swallowing, follow the emergency advice on the label, and contact your doctor or poison control center.
- Do not intentionally drink large amounts of chemically treated pool water.
- Keep chemicals off your grass, shrubs and other growing things.
- Do not backwash chemically treated pool water into your vegetable gardens.
- Dispose of excess product and empty containers per label instructions. Do not pour any dispensed product back into the container. Do not reuse an empty container.

FOR EMERGENCY MEDICAL INFORMATION, call the poison control center nearest you, or dial **1-800-654-6911**.
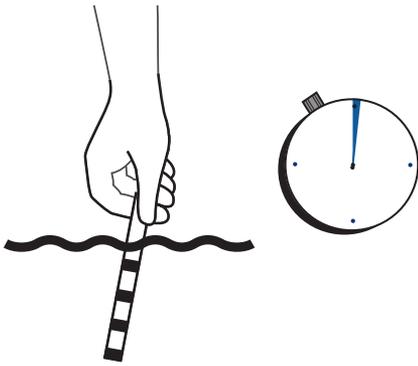
BAQUACIL® Test Strips

Oxidizer

Total Alkalinity (ppm)

Sanitizer & Algistat (ppm)

pH

FOUR TESTS IN ONE

BAQUACIL® 4-Way Test Strips are a quick and easy way to check the **BAQUACIL® Sanitizer and Algistat**, **pH, Total Alkalinity** and **Oxidizer** levels in your pool water. The four pads on every test strip each check a different condition of the water.

TIPS FOR BEST RESULTS

- Always dry your hands before removing test strips from the bottle.
- Replace and tighten the lid immediately after removing a strip to help keep the rest fresh.
- Store the strips in a cool, dry place.
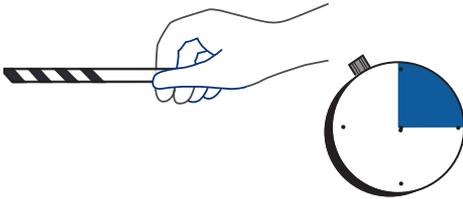- Leave the packet of drying agent in the bottle.

STEP 1
Dip a strip for two second and remove.

IMPORTANT: Do not "swish" or move the strip back and forth, as this will affect the accuracy of the test.
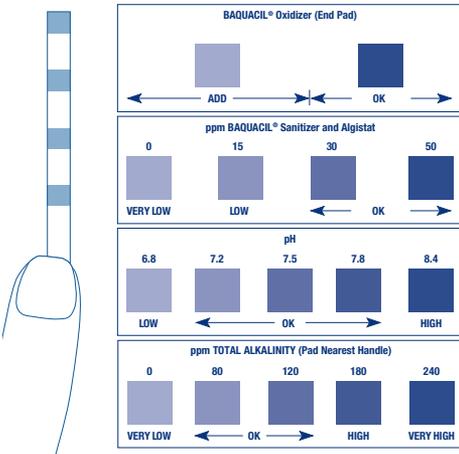
STEP 2
Remove with pads face up. Shake once to remove excess water. Read immediately.

STEP 3
Compare the strip colors to the corresponding color blocks on the **BAQUACIL® 4-Way Test Strip** bottle. Record the results of your test in the Pool Maintenance Log in the inside of this guide.

IMPORTANT: If the levels indicated on your strip need adjustment, refer to the Water Balance section in this guide.

BAQUACIL® Oxidizer (End Pad)

◄——— ADD ———►	►	◄——— OK ———►

ppm BAQUACIL® Sanitizer and Algistat

0	15	30	50
VERY LOW	LOW	◄——— OK ———►	

pH

6.8	7.2	7.5	7.8	8.4
LOW	◄——— OK ———►			HIGH

ppm TOTAL ALKALINITY (Pad Nearest Handle)

0	80	120	180	240
VERY LOW	◄——— OK ———►		HIGH	VERY HIGH

CHLORINE FREE

BAQUACIL®

www.baquacil.com