



Est. 1994

ECOsmarte Pool & Spa Products



“The most advanced pool and spa
water treatment technology on the planet”

EPA EST # 083498-MN-001

ECOsmarte is a registered trademark of ECOsmarte Planet Friendly, Inc. in 26 countries., Swim in Bottled Water, and Glass Pack are trademarks in the US, Canada, Australia, Japan and pending in 19 other countries.



The ECOsmarte Pool Chamber been
Tested and Certified by WQA
According to NSF 61.



In wastewater and reclamation districts such as northern Los Angeles County that have banned the use of salt to chlorine generators.

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Established in 1994, ECOsmarte is located adjacent to the MSP airport on I-494 at the Mall of America.

ECOsmarte Planet Friendly
1600 East 78th Street
Richfield, MN 55423

US EPA #083498-MN-01



Thank you for your interest in ECOsmarte's chemical-free pool and spa water treatment systems. ECOsmarte has been running chemical free swimming pools and spas for over 15 years. ECOsmarte currently has over 20,000 swimming pools operating worldwide with crystal clear water without the aid of any chemicals.



The ECOsmarte pool system allows you to enjoy your pool like you never have before. You will get crystal clear, pure, chemical free water every day without the hassles and expense of chemicals and the worries of algae, cloudy water and the irritation of chlorine. Not only will you have better pool water but you will be able to maintain your water in only a few minutes each week.

There is no other water treatment system on the planet that provides all of these benefits and costs less than \$1 per month to operate!

ECOsmarte works great on pools, spas, ponds, waterfalls, water walls and fountains.

ECOsmarte will pay for itself with money saved on chemicals, electricity, bathing suits and damage to the pool surface and equipment that comes with chlorine or salt.

A few reasons the ECOsmarte Pool & Spa System is the best alternative for treating your pool or spa water.

1. You will save time & money by not having to purchase and add chemicals to your pool or spa to sanitize the water.
2. The water in your pool or spa will not burn your eyes, dry out your skin, damage your hair or ruin your swim wear.
3. The ECOsmarte systems produce high quality fresh water that will not be corrosive like salt systems. For a complete comparison of the ECOsmarte system to salt-to-chlorine generators, see page 16.
4. The ECOsmarte systems require only a few minutes each week to properly maintain the water quality.
5. The ECOsmarte system only requires most pool pumps to be operated 6-12 hours per day, thus saving electricity.
6. Water quality is easier to maintain using an ECOsmarte pool or spa system, dramatically reducing the risk of algae and cloudy water.
7. ECOsmarte provides toll-free customer assistance 6 days per week at 1-800-IONSWIM.
8. All ECOsmarte pool and spa systems carry a Five Year Warranty, **including the cell.**
9. All ECOsmarte pool and spa systems are sold with a 60-Day Satisfaction Guarantee.
10. ECOsmarte pool and spa systems can be easily installed by the homeowner in less than one hour.
11. ECOsmarte pool and spa systems eliminate scaling and stains caused by iron and calcium in the water.
12. Swimmers will no longer need to shower or shampoo to remove chlorine or other sanitizing chemicals from their hair and skin after swimming.
13. ECOsmarte chemical-free treated pool and spa water is a far healthier alternative for you, your family and the environment than chlorine, salt and other sanitizing chemicals.
14. Competitive products only reduce the chemicals used and are often supported by startups working out of their home. ECOsmarte is now 15 years old and welcomes your visit to our headquarter building on the west edge of MSP airport, across from the Mall of America in Minneapolis, MN.

How the ECOsmarte Treatment Process Works

The ECOsmarte system creates two sanitizing agents, copper ionization and oxidation. As water flows from your pump back to your pool it travels through the ECOsmarte ionization oxidation chamber. While in the chamber, the water will either receive copper ions or become oxygenated depending on the setting of the switch on the controller.

Copper Ionization

Copper ionization was first used in 1967 by NASA in the Apollo Space Program to insure safe drinking water and to control scale in cooling systems during space missions. The ECOsmarte System incorporates this same technology. The copper ions created by the ECOsmarte System are safe and essential for humans, plants and animals, but are lethal to bacteria, algae and some viruses. By adding these ions to your pool or spa water, the ECOsmarte System basically kills bacteria, algae and certain viruses and prevents them from growing in the water.

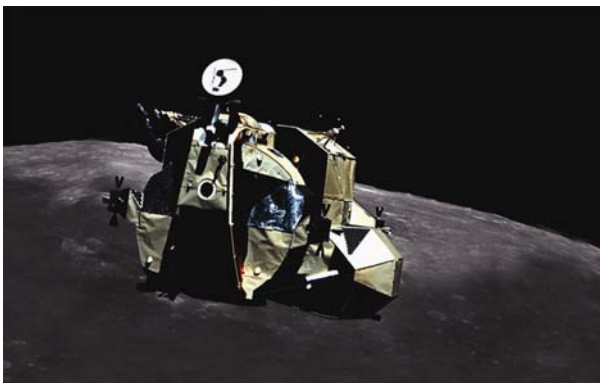
Copper ions are only added to the water for a few hours each week in swimming pools and only a few minutes each week or month in spas. The residual sanitizer in the water, produced by the ionization process is recognized by the National Sanitation Foundation (NSF) and the U.S. Environmental Protection Agency.

Natural Non-Chemical Oxidation

ECOsmarte's proprietary non-chemical method of oxidation is what separates it from other chemical reducing water treatment systems on the market. Oxidation is achieved by water passing through the chamber while low voltage electrical current is sent to the anodized titanium plates in the chamber. While in the oxidation mode, a proprietary process of electrolysis causes the electro-physical separation of water into oxygen and hydrogen. The oxygen atoms separated in this process are responsible for removing the dead organic material and other contaminants in the water such as body oils and suntan oils.

The ECOsmarte systems produce oxidizers, measured in grams per minute, at a level not available with ozone generating systems. Additionally, each ECOsmarte oxidizer is more powerful than sodium hypochlorite, the dominant form of chlorine.

The combination of copper ionization and non-chemical oxidation produce pure, clear, and clean water not available with other water sanitizing systems.



Ionization was first developed by Honeywell in Mpls. MN for the Apollo Moon Mission in 1968.

In 1993, Minneapolis based ECOsmarte added the platinum anodes to give the oxygen output needed to eliminate chemicals.





**ECOsmarte has four different product models
to suit the need of every pool and spa owner.**

ECOsmarte STANDARD TURBO IN-GROUND POOL SYSTEM

The Standard Turbo System is designed for in-ground pools from 5,000 to 50,000 gallons. The Standard Turbo System has two settings, ionization and oxidation. The system will be in the oxidize setting no less than six out of every seven days. When the copper ion level falls to below 4ppm, the system should be switched to ionize mode. Most pools will require the system to provide ionization for five to ten hours only one day per week. The system can adequately sanitize most pools by running the pump only 6-12 hours per day. Reducing your pump time can save as much as 70% on your electricity usage.

The Standard Turbo System comes with only two components, the electrical controller box and an ionization and oxidation chamber that fits on 2" PVC pipe from the return line to your pool from your filter.



The Standard Turbo System is the most popular pool system with engineering to handle up to 50,000 gallons.

Above Ground Models (at lower cost) will treat pools up to 10,000 gallons.

110V and 220V models available and 63mm and 50mm Euro schedule 80 available.

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ECOsmarte TOTALLY AUTOMATED SYSTEM

The Totally Automated System does everything the Standard Turbo System does and more. The Programmable Electronic Controller comes with a programmable keypad. By following the prompts on the screen, the user can program the controller to provide ionization and oxidation for specific days of the week and times of the day. This eliminates the need to manually change the system from ionization to oxidation and back again.



Controlling the pH of the water is an important requirement for operating the ECOsmarte systems. Rising pH can be adjusted downward by adding muriatic acid to the pool water.

The Totally Automated Pool System eliminates the need to regularly add acid to lower pH through the use of CO₂ injection into the pool water. Carbon dioxide injected into the water will help keep the pH stable and thereby eliminates the need to handle muriatic acid.

No sensors to calibrate or replace and pH becomes predictable and often allows weeks without even testing.

Carbon dioxide has been used in the aquarium industry for over 30 years. ECOsmarte has been using it in swimming pools and spas for over 15 years and is the **only** manufacturer to eliminate sensors and the costly calibration and replacement. ECOsmarte uses proprietary software and Intel microchip technology.

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The amount of CO2 needed to control pH varies greatly depending on the type of pool surface, the pH of the source water used to fill the pool and the pool water temperature. In moderate climates where the water pH is below 7.6, only a moderate amount of CO2 is needed. Most pool owners are able to arrange for CO2 canisters to be replaced by a local bottled gas company on a bi-monthly schedule.

The flow rate is preset to meet the maximum demand for CO2 pH control. The controller actuates the flow control solenoid valve to provide pH correction. Maintenance of the flow control unit is minimal. The time for CO2 injection can be adjusted to minimize the cost of tank refills.

By simply performing regular water testing twice per week during the first month after installation, the user will be able to determine the amount of time needed for adequate CO2 injection. Many sites can operate on just two CO2 tanks with an optional ECOsmarte "switchover manifold" per season, with either 20lb or 50lb cylinders.

The Totally Automated Pool System is the perfect solution for pool owners who do not have the time or ability to check their water chemistry on a weekly basis during the swimming season. Pool owners who are away from home for several weeks at a time and do not want to worry about the condition of the swimming pool water while they are away would also benefit from the Totally Automated System.



The Totally Automated Pool System is ideal for pool owners that want total automation and also experience significant fluctuation in the pH of their pool water.



Automated System buyers receive special package discounts to purchase the ZERO Salt, ZERO Chlorine whole house systems which make the care of their pool even easier.



ECOsmarte AUTOMATED PROGRAMMABLE SPA SYSTEM



The pH control offered by the ECOsmarte programmable spa system is a luxury for active professionals.

Automated pH Control

The best aquariums in the world use automated CO₂ pH control, failure in this environment will lead to dead fish. ECOsmarte brought this to the swimming pool industry with a proprietary system that uses no sensors.

ECOsmarte TURBO SPA SYSTEM: The Bottled Water Spa™

The ECOsmarte Spa System is designed for applications from 300 gallons to 5,000 gallons of water. The controller can be easily wired so the system comes on during the time the spa is performing its daily circulation and filtering cycle or it can be plugged into a simple timer. Unlike the pool systems, the ECOsmarte Spa System only needs to be in the ionization mode when the spa is filled, and the system can be left in the oxidation mode for up to three months until the water is drained and the spa is refilled. Turbo users simply adjust pH weekly; twice weekly the first week the spa is filled.



Customers with well water often enjoy the benefits of filling the spa through the ECOsmarte Whole House System, eliminating iron and odors at fill up and making the spa easier to take care of.

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Installation is Easy and Available in All 50 U.S. States

All ECOsmarte products are easy to install and come with a clear installation and operating guide. Most installations can be completed in less than 30 minutes.

The spa and standard pool systems consist of only two components, an electrical control box that plugs into a standard 110V outlet and a clear PVC chamber that is installed in the return line to your pool or spa from the filter or pump. The only work involved is cutting a small section of the PVC pipe out of the line going back to your pool or spa and gluing two fittings on the ends of the pipe that was cut. The chamber is then screwed hand tight onto the fittings. If the pool pump is controlled by a timer, the ECOsmarte controller should also be wired to the timer so it is not on while the pump is off.

The ionization/oxidation chamber in spas is installed in the water line used by the recycling pump. The controller is wired to the spa electrical service panel that is available for an ozonator. If the ECOsmarte System is being used to replace an ozonator, the system can be wired using the plug attached to the ozonator. ECOsmarte technicians can provide guidance for installation on hundreds of different spa models and manufacturers and are available six days a week to provide toll-free support.

With customers in over 100 countries and all 50 U.S. states, ECOsmarte can often arrange installation at a flat rate, nominal expense.

EVERY POOL is FRESHWATER and NATURAL EVERY WATER FEATURE Can Be Managed By ECOsmarte Chemical-Free Technology.



SALT TO CHLORINE GENERATORS
are not viable in many applications
and not legal in a growing number of chloride discharge ban areas.

Operation Requires only 5 Minutes Per Week

Operation of the system consists of performing weekly tests of the water's copper ion level and pH. If ionization is needed, the switch on the front of the control box will need to be switched to ionization until the copper level reaches the desired level. At that time, ionization is turned off and the system converts back to providing oxidation. That is it.

Most spa owners will only need to provide ionization at each initial fill of the spa.

Pool owners who may be away from their home for extended periods may benefit from the Totally Automated System. The Totally Automated System allows the ionization and oxidation cycles to be programmed into the controller, so the cycles turn on and off at the same times each week. This allows the pool to be properly ionized and oxidized while you are away from home.



No scale forms, no hard water lines occur with ECOsmarte

Technical Specifications

Mechanical & Plumbing Electrical



Operating Pressure Max.	150psi	Input Voltage:	110v, 220v, 240v
Operating Temp. Max.	120°F	Output Voltage:	30VA Class UL
Oxygen Electrodes:	Proprietary Titanium Composite	CSA Compliant	Power Supply
Copper Electrodes:	100% Pure Copper	CE Low Voltage	Approved

Digital Programmable Model

pH management is automatically controlled with our Intel chip that bubbles carbon dioxide into the pool. No sensors to calibrate or replace. Little or no acid to handle.



ECOsmarte's Pool Manager

The ECOsmarte Pool Manager Test Kit is included with every pool system at no additional charge. This test kit allows the pool owner to easily test the three vital water chemistry items required by the ECOsmarte system without having to travel to a pool store to have their water tested.

The system includes a test for calcium hardness, pH, phosphates and copper. Everything fits neatly in a handy carrying case. Instructions for each test are shown in the cover of the hard case.



For quick reference the owner's manual is summarized on the outside of your pool manager case.

The Turbo Spa System includes the LaMotte copper test kit only, the Programmable Spa System receives the full Pool Manager. The ECOsmarte Pool Manager Test Kit can be purchased as an option with the ECOsmarte Turbo Spa System.



Our 60 Day Satisfaction Guarantee

We are so certain you will be pleased, we are glad to offer the following guarantee: If for any reason you are not 100% pleased with your ECOsmarte Digital Programmable Pool or spa product within 60 days we will refund your purchase price less 15% restocking fee, shipping charges and installation expense if applicable.

If you choose a turbo, above ground or spa system we will gladly exchange the equipment for any other pool or spa equipment or issue a 100% store credit less shipping or install charges.

In the past 15 years, less than 1% of all units sold worldwide were returned for a refund or exchange.

Our 5-Year Warranty – Includes the Cell

ECOsmarte is proud to offer one of the best warranties in the swimming pool/spa industry. ECOsmarte warrants its equipment to be free of defects in material or workmanship for a period of five (5) years. This warranty includes the electronic box, the plumbing components and the titanium electrodes. It does not include the self-sacrificing copper electrodes. The copper electrodes should last 2-4 years and cost only \$175 to replace. They can easily be replaced by the pool owner with a screwdriver. The warranty does not include installation or repair cost and in no event shall the liability under this warranty exceed the purchase price of the product.

ECOsmarte Planet Friendly, Inc.

ECOsmarte Planet Friendly, Inc. was established in 1993. The company develops proprietary non-chemical, environmental friendly water purification systems used in numerous residential, commercial, agricultural and industrial applications. ECOsmarte provides customer support through a growing national network of over 100 factory certified technicians, authorized dealers and six day per week toll-free support at 1-800-ION-SWIM.

ECOsmarte has over 20,000 product installations in all 50 states and over 100 countries.



Located by the MSP Airport at the Mall of America exit, ECOsmarte welcomes your visit.

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Frequently Asked Questions

Q: Is Copper in the water safe for me?

Absolutely. We run our pools at less than half of the safe drinking water levels according to the EPA. If you drank 2 gallons of pool water, you would ingest the amount of copper found in a multi-vitamin.

Q: Will the ECOsmarte System work on any pool or spa?

ECOsmarte systems can be installed on any pool or spa. The only caveat is that the ECOsmarte is not recommended for installation on swimming pools with cartridge filters. Due to the nature of these filters they do not do a good job holding all of the contaminants oxidized by the ECOsmarte system. The system works fine on spas with cartridge filters because the amount of contaminants being filtered are significantly less in most cases than a swimming pool.

Q: Is the system easy to install and operate?

Yes. As mentioned in the installation and operation sections on our pool and spa products, installation of the Programmable and Turbo models can easily be completed in 30 minutes. Operation of the system requires weekly testing of the pH and copper in the pool water and simply flipping a switch, much like a light switch on and off a couple of times.

Q: Do you mean that I will never use chemical again?

The only reason to add chemicals to your pool will be to control pH. You need to neutralize pH to maximize the kill rate of our oxygen and copper. The ECOsmarte system works best with a pH of approximately 6.8 – 7.2. If it becomes necessary to increase the pH of the water, we recommend the use of baking soda. If it becomes necessary to lower the pH of the water we recommend the use of muratic acid which can be purchased from any discount building supply store. If you mismanage your pH or copper level and get algae bloom we might suggest using a quart of non-metal algaecide or a few pounds of non-chlorine shock, but the pool requires no regular chemicals for sanitation.

Q: How does the ECOsmarte system compare to salt-to-chlorine generating devices?

The ECOsmarte system is superior to salt-to-chlorine generators in many ways. First, pool and spa water treated with the ECOsmarte system is preferred by virtually every person that has had the opportunity to swim in a pool treated with ECOsmarte versus a pool treated with a salt-to-chlorine generator. Secondly, water in an ECOsmarte treated pool is free of all sanitizing chemicals and has the feel and taste of bottled water. Salt-to-chlorine generators produce chlorine and can adversely affect pool equipment, liners, covers and the swimmers. The discharge water from a pool treated with a salt-to-chlorine generator can contaminate soil and ultimately kill vegetation and sterilize the soil. For a complete list of comparisons between ECOsmarte systems and salt-to-chlorine generators, see page 16 of this brochure.

Q: My pool man says this will not work. What should I do?

Would you ask him which pool he know of where the ECOsmarte System did not work? Chances are that he is not familiar with the ECOsmarte system or has confused ECOsmarte with another alternative system. All of our equipment comes with a 60-day satisfaction guarantee. We would be interested in the name of the unsatisfied customer. We get very few returns and provide technical support for all of our customers through our toll-free support line: 1-800-ION-SWIM or our 7 day per week online support

Q: If I have other questions about the system, who can I call to discuss the system in more detail?

You can call us toll-free at 1-800-466-7946 and we will gladly answer any questions you may have. ECOsmarte has seven day per week overnight online support as well.

Q: How much savings will there be?

If you currently use any chemicals for sanitizing, algae control or clarifying your water, you will no longer need them. If you are currently running your pump more than 8-12 hours per day, you will save electricity. If you currently need to backwash more frequently than twice a month, you will likely save water. The actual savings amount will vary depending on the size of the pool, the type of sanitation currently being used, the length of the season and other factors too numerous to list here.

While the system will easily pay for itself in a few years, money is only one of the reasons a pool or spa owner should buy an ECOsmarte system. The health and safety issues are equally if not more important than the economics of owning the system.

Q: Will the copper stain my pool?

The amount of copper being added to your pool is significantly less than what is needed to cause staining. If the system is not operated properly and the pH rises significantly and the system is left on ionization for a prolonged length of time, staining could possibly result. ECOsmarte technicians can provide instructions on how to correct such staining in the unlikely event it should occur.

Q: Where can I find a supplier for CO2?

CO2 can be easily obtained from air/gas companies; many suppliers of oxygen also supply CO2. Other sources include welding supply companies, beverage companies and micro-breweries. For most pools, we recommend that two 20 lb. CO2 tanks be used. One tank should last 30-60 days. Having two tanks allows the pool owner to exchange the tanks at the end of the month and have plenty of time to get the empty tank replaced before it is needed again. A switchover gas manifold allows many moderate climate pool owners to use either two 20lb or two 50lb cylinders for the entire year.

**SIX DAY PER WEEK TOLL FREE SUPPORT
AT 1-800-ION-SWIM
Seven Day Online Support with Detailed Written Answers**

FIVE YEAR WARRANTY (Non-Prorated)

From a manufacturer in business for 15 years, many start ups are in the market; buyer beware.

Over 100 Countries & All 50 States since 1994.

www.ecosmarte.com

www.glasspackfilter.com

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Why ECOsmarte is preferred by Pool Owners over Salt-to-Chlorine systems.

1. Swimmers prefer the feel and taste of water treated with the ECOsmarte system over water treated with salt-to-chlorine generators by an overwhelming margin.
2. ECOsmarte systems work within a calcium hardness range of 200-2,000ppm. Because it converts calcium to bicarbonate, the ECOsmarte system will eliminate and prevent calcium scaling on pool walls and rock features. Salt-to-chlorine generators do not control calcium scaling and will only work within a calcium range of 200-400ppm.
3. Since salt-to-chlorine systems produce chlorine, the sanitizing effectiveness of the system is impacted by changes in temperature, bather load, sunlight and rainfall. Changes in any of these factors may require additional “shocking” of the water to prevent an algae outbreak. ECOsmarte’s effectiveness is not significantly affected by these factors. An ECOsmarte owner does not have to be concerned about doing anything different to treat their pool if they have 20 kids in the pool all day. The pool water will still provide bacterial and algae protection for a full week or more.
4. Vinyl liners, automated pool covers and solar covers may become damaged from the use of chlorine or salt-to-chlorine generators. Since the ECOsmarte system does not require the use of harmful oxidizing chemicals, these expensive pool components can be expected to last their normal life expectancy.
5. Salt-to-chlorine generators will use an average of 500 watts of AC power for a 20,000 gallon pool. ECOsmarte systems will use an average of only 40 watts of DC power to treat the same amount of water.
6. Salt-to-chlorine generators and the ECOsmarte system both use a chamber in their process. The difference is that a salt-to-chlorine generator cell may need to be replaced in 3-5 years at a cost of over \$500. The copper bars in the ECOsmarte chamber cost \$175 to replace and they should last 2-4 years. The ECOsmarte chamber is warranted for 5 years and should last indefinitely; most of the first 1,000 in MN and AZ are still functioning.
7. The backwash discharge from an ECOsmarte treated pool is safe for use on lawns and in a garden since it does not contain any salt or sodium. Backwash from pools treated with salt-to-chlorine generators can kill plant life, sterilize soil preventing plant growth and is prohibited in many municipalities in the United States and Australia (where salt-to-chlorine systems were invented).
8. ECOsmarte offers six days per week of toll-free support at 1-800-ION-SWIM to consumers, dealers and service personnel. No such support is available by any manufacturer of salt-to-chlorine generators being sold in the United States. Consumer and techs take advantage of the detailed written answers available seven days per week.

If you have an attached spa the results with ECOsmarte will be dramatic with hot water. No odor with ECOsmarte, salt systems have noticeable and unpleasant odors when water is heated.

ECOsmarte uses low level DC voltage, salt systems and ozone use high amperage AC voltage.

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Price List 2015

Item	Retail
Spa Turbo	\$1,595
Standard Above Ground 1.5"	\$1,995
Turbo Unit 2"	\$2,750
Programmable w/CO2	\$5,995
ZERO Wasted Water System	\$4,295
Point of Entry System (City)	\$5,495
Well Turbo POE	\$6,495
Light Commercial City POE*	\$7,995
Light Commercial Well POE*	\$9,995
In-Line Rainwater 1250 GPD	\$7,995
In-Line Rainwater 2500 GPD	\$9,995
Recirculation Rainwater**	\$12,995
CO2 Switchover Manifold	\$1,695
Glass Media (per 50 lb. bag)	\$50
Copper Electrodes	\$175
Copper/Oxy Chamber 1.5"	\$799
Copper/Oxy Chamber 2"	\$845
ECOSmarte Pool Manager	\$119
Customer Care Kit	N/A

Free Freight on Orders over \$35,000

*12x52 Tanking - Larger Tanks Quote

**30,000 Gallon holding capacity



Print and Video TESTIMONIALS

We wanted to thank you for your wonderful pool system. We have been using this system for 6 years now and we are chemical free. It is so wonderful knowing that our children (7 of them) and us can safely swim in the pool daily and not be concerned that we are getting “chlorinated” to death!

We love ECOsmarte!

Bonnie & Martin Nedza
Tucson, AZ

Pool

My husband and I recently purchased your ECOsmarte Turbo Pool System and we are truly pleased with it. We are amazed at the clarity of the water, how soft our skin is after exiting the pool, and the lack of odor. Our skin no longer feels itchy or dry, and our bodies do not smell of chemicals, such as chlorine. Several of our friends have chlorine sensitivities and were not able to enjoy our pool during summer gatherings. They now are able to enjoy the water without reactions and have further commented on how the water feels light and soft.

We look forward to enjoying the rest of this summer being chemical, chlorine, free!

Jeffrey & Charmayne Ross
San Diego, CA

Pool

I am writing to let you know how much our family loves our swimming pool since we purchased the ionic water purification system from ECOsmarte. We live in Central Pennsylvania and have an 18 ft x 36 ft in the ground pool of 27 years. During this period of time we have tried several methods of water purification. We started with and used chlorine (HTH) for 13 years and then switched to baquacil for four years and finally in 1996 we purchased the ionic purification system from ECOsmarte



which we are currently using and like very much. The great thing about the ionic purification system is that once you get your water chemistry in balance there is very little work to maintaining a picture perfect pool. More important is the fact that this system provides you pure water without any toxic chemicals and at the same time saves you the expense of those chemicals. In addition, the ionic system uses very little electricity so it is inexpensive to operate. After using all three methods of purifying our pool water I would recommend the ionic purification system by ECOsmarte over all the other methods. You can't beat this system with all the advantages it has to offer. Thank you,

Roger Guss
Central Pennsylvania

Pool

YouTube Testimonials

<http://www.youtube.com/watch?v=7UAXdCgRG2U>

<http://www.youtube.com/watch?v=HK776Bgrgvk>

http://www.youtube.com/watch?v=V_frTQOD-o4



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I just spoke with you on the phone about getting Replacement Copper Electrodes - enclosed is the picture of our pool. We are very pleased with our system - the water quality was great - though we have had a problem learning how to regulate it. After speaking with you today I feel more confident that we will receive more punctual help when calling you directly.



Judith C. and R. Lee Smith
Dublin, VA

Your system has served my pool well this year. The system was installed in October of 2004, and when I opened the pool in May of 2005 the water was crystal clear and blue. Your friendly staff helped me with several questions about the system's workings and is available readily by phone. I just closed the pool for this year and I'm very happy with the ease of maintenance that I had all this summer!

Thank you,
Kerry Viar
Roanoke, VA

[Pool](#)

Thank you for all your help with our copper ionizer system. We absolutely love it! Our pool is so clean and chlorine-smelling free! I have long blonde hair, and for the first time in my life, my hair has not turned green! Our friends and family members could not believe it! It is so easy to maintain and you all are always so wonderful and helpful whenever we have a question or concern. You are Johnny on the spot! We have recommended this system to several of our friends and they love the system just as much as we do! Stan just swears by his and Terry just loves the fact that her and her dogs can swim in it and be completely safe!! Thank you again and so soon as we get the pool opens this summer we will send you tons of pictures of our clean blue water!! Have a great day!

Chris and Dacia Blanks
Louisville, KY

[Pool](#)

I purchased the ECOsmarte this year for our in ground pool. After reading it in advertisement, I was curious. Not using chlorine sounded great. After learning more from the dealer, I was convinced to try it on the 60-day satisfaction guarantee. There was a difference. The water made our skin softer and the children enjoyed the water without chlorine. They stayed in longer and didn't mind opening their eyes. My son's friend at the ages of 10 commented on the chlorine free water. My daughter started bringing goggles to her friend's pool because of the chlorine.

At the beginning it was a change to get used to the system. I phoned the toll-free number and the service was always friendly and helpful. When the 60-days were coming to an end, the choice was obvious. My wife and I decided to keep it. Our children were enjoying their swim and in the long run it is better for our health.

The Camick Family
Ontario, Canada

[Pool](#)

I want to thank you for inventing such a great product. We recently moved to Arizona only to discover that the water here is loaded with chlorine and a highly toxic substance to which I'm highly sensitive. We also discovered that the amount of calcium in the water causes white scaling on every dish, glass, sink, shower and toilet. Since we had your system installed, I can actually do laundry that smells clean as opposed to smelling like I just dumped it in a swimming pool, plus we don't have a white film on everything in the kitchen and bathroom. I can't even express what a difference your product has made.

Adrienne Ramirez
Phoenix, AZ

[Pool](#)

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Thank you so very much for all your patience with me regarding the ECOsmarte pool system. I am so excited about your products. Thank about all the pollution we are reducing by not pouring tons of chemicals into our pools, thus preserving the health of our lives, our children's lives, our wildlife and the future of our planet. Your integrity as a company really shines through. You are there when we need you. It is noticed and – surely – it is appreciated. Thanks again. It's been great discovering ECOsmarte's pool system.

Lisa Mitchell-Witchell
Minneapolis, MN

Pool

We love our ECOsmarte Pool system because the water has a fresh natural smell, our skin is never irritated by the pool water, and showering is unnecessary after swimming. We recommend this system to anyone who is interested in high quality swimming pool water.

Jerry and Nancy Ouska
Edina, MN - since 1997

Pool + Glass Media

We bought our spa one year ago. After using it for four months I developed a bad skin problem. Sores and painful itch haunted me every minute. We were ready to sell the tub when our dealer suggested the ECOsmarte system. Now the rash has gone away and we are once again enjoying our tub.

Gene M.
Long Island, NY - since 2003

Spa

We love the chemical free water because of the feel on our skin, because of the clarity of the water and because of the time we save swimming in the pool as opposed to treating it with chemicals. We also have really enjoyed the comments of neighbors and friends when they see our clear water and hear about the uniqueness of the pool.

Jerry Roth
Katy, TX

Pool + Spa

We would like to tell you how much we have enjoyed our pool with the ECOsmarte system. In the seven years we have had the pool, it has always been so easy to maintain. The difference of swimming in it compared to other types of pools sanitized with chemical products is amazing. Please see (enclosed picture) how crystal clear our pool stays with your system.

The Balack Family
Cabot, AZ

Pool

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We were apprehensive to try "another" pool product, but your system is easy to use and saves us money. Better yet, it has solved our ten year battle with well water, nitrates, filtration and chemicals.

I have found you to be the most knowledgeable in pool construction and water chemistry and by far the most honest in the pool business. I'm looking forward to enjoying our ECOsmarte hassle-free pool for summers to come.

Thank You!
Kelley Schweitz
Stillwater, MN, since 1996

[Pool + Glass Media](#)

I just wanted to take a moment and let you know how pleased we are with our new spa with the ECOsmarte system that we just installed in our home. Having had a spa in our last home, we know what an inconvenience it is to constantly have to deal with chemicals to keep the water clean. With a chemical system, you not only invest your time in maintaining the water quality, but you also have an additional financial investment for the chemicals and the hassle of having to go out and buy them. Having the ECOsmarte system installed in our spa has saved us time and unburdened us of the constant chore of measuring and adding chemicals to our water. The added bon us that we have found is our skin is so soft! In the past we've noticed a drying effect the chemically treated water would cause, but with ECOsmarte, it is just the opposite. Our skin feels like we've just stepped out of a moisturizing bath. Thank you for showing us the benefits of having an ECOsmarte system installed in our spa, we'll never go back to chemicals again.

Tom LaCourt
Burnsville, MN

[Spa](#)

We are really enjoying our chemical free pool. The water is crystal clear and much gentler on the skin. I don't worry about the girls spending hours in the pool since they are no longer exposed to all the chlorine.

Fronica Gonzalez
The Woodlands, TX, since 1995

[Pool + Whole House](#)

Boy we sure wish you would have had your unit 26 years ago, when we put the pool in, we started with chlorine. Our kid's eyes would smart and sting and their suits and liner would fade. Then we went to baquacil, the damage to metal was bad and we are still felling those effects of that so-THANK YOU ECOSMARTE FOR A GREAT PRODUCT.

Dave and Phyl Cummings
Just north of Rockford, IL

[Pool](#)

I absolutely LOVE my new spa with the ECOsmarte system. My skin is so soft and smooth and my fingernails are strong and healthy. I love how easy it is to maintain. But most of all I like that there is no chlorine smell. We use the spa everyday and have shared it with many friends and neighbors, they all marvel at the purification system. I researched very carefully before making my purchase. I visited 7 different spa stores; I asked lots of questions and compared options. The ECOsmarte system was the best choice I could have made.

Kris Hanson
Richfield, MN

[Spa](#)

Our family loves your product. First, there is so much less maintenance with your system than normal chlorine systems. Secondly, the Copper Ionization System doesn't affect your eyes as bad as a chlorine system does. Thirdly, our skin comes out feeling cleaner than if we were to swim in a chlorinated pool. Lastly, it's much cheaper to maintain than a chlorinated pool (so my dad says).

Doug Gander (16 year old Pool Caretaker)
Apple Valley, MN

[Pool](#)

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To whom it may concern:

After one year of having an ECOsmarte pool system installed in our pool, we are very happy with the results. It is very enjoyable to swim in water without chemicals. We don't have to worry about skin irritation from chlorine or other pool additives. The maintenance is minimal, and our pool looks great. We are looking forward to many great years of family fun in our pool.

Jeff and Kris Christiansen
Inver Grove Heights, MN

[Pool + Glass Media](#)

I have been very pleased with our ECOsmarte over the 5 Years that I have happily owned it. It has benefited us in many ways. I guess you could say the money part of the deal is the best. We spend very little money on it yearly. This in return gives us more money to do the things we love like vacationing. Speaking of which, when we are gone for weeks at a time we don't have to worry about our pool. We also like the idea that there are no chemicals causing dry, itchy skin, No burning red eyes, and no smell. It is also a very healthy way to swim. As I'm sure you know chlorine is a cancer causing chemical.

Bill and Sandra Lickteig
Louisville, KY 40216, since 1994

[Pool](#)

Because our ECOsmarte uses copper instead of chlorine I can swim without my allergies becoming bothersome. Most pool systems use chlorine or other types of chemicals to treat the water. However, when I swim in chlorine pool, my nose drips, I'm sneezing, and usually my skin is very itchy and red. We have friends who installed the ECOsmarte, and boy! What a difference it made in the quality of their pool water! I no longer had to take a Kleenex box with me poolside. My skin felt soft and my daughter's hair did not feel like straw when she was finished swimming. My husband and I had decided that we would not install a pool without an ECOsmarte system. We've had a few problems, but using natural products has helped to clear them up. We try to let the system work itself through its problems.

Mary Bayens
Jeffersonville, IN

[Pool](#)

I have been using an ECOsmarte pool system for almost 2 years now and as Larry promised, maintenance is so easy it's almost boring! We opened the pool for the season a month ago and so far the only thing I added is half a gallon of muratic acid. The water looks great, feels great and smells great! Just as impressive as your product is your staff. I have always been delighted at how knowledgeable and courteous they are and how willing they are to work through issues (even when it turns out the ECOsmarte has nothing to do with the problems!).

Thanks for a healthy, sparkling pool,
Sue Balmer
Georgetown, IN

[Pool](#)

Thanks for your assistance on the phone a few minutes ago. I've called before and talked with someone else. I must say, everyone at ECOsmarte is always very helpful. I have really enjoyed having the system. It sure is nice not to have to worry about chemicals! I stopped by the pool store today and overheard several customers talking about how much work they had to do in order to get their water right for swimming. I just laughed and told them mine had been clean all winter without much effort. Hopefully, they'll wake up and buy an ECOsmarte system and be worry free. If anyone would like to call me and discuss the system, don't hesitate in giving them my number.

William Jolle
Meridian, MS, since 1994

[Pool + Glass Media](#)

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This letter is to express our pleasure with the ECOsmarte Spa system that was installed on our hot tub a few weeks ago. Since the installation, we have not had to use any bromine and the water has been crystal clear. The advantages that we have noticed thus far have been that the water is silky, our skin stays soft, there has been no reason to have to rinse off after getting out, our suits have not faded, and the water smells fresh - not like bromine. Your installation crew was experience, polite, and took the time to explain the system. They cleaned up their work site and they were expedient. We will definitely recommend the ECOsmarte to anyone considering switching to a non -chemical system.

Tim & Angela Geyer
Fenton, MI

Spa

I am writing this letter to you to brag on the performance of one of your dealers. I don't want to write a super long letter, but I felt the need to tell you some details for your understanding.

My family and I moved from Chicago to Tucson 9 years ago. Shortly after we arrived we were greatly amazed at the difference of culture and now after 9 years we have come to the awareness that businesses here in Tucson move at a much slower pace and are for the most part unreliable when it comes to scheduling things. We were greatly pleased by the honesty, the sincerity, and quality of work of the Goodin family. What they said is what they did. When they said they would do it they did it. Now that we have the pool installed, any time we have questions they have the answers and provide us any service we need.

As far as the pool is concerned, this one piece fiberglass pool, 35 ft. by 15 ft. with the ECOsmarte system has got to be the finest of pools in the world. The Goodin family gave us all the accurate information we need to keep our pool crystal clear and chemical free.

Thank you for the ECOsmarte system, and thank you for working with the Goodin family. As far as I am concerned, if anybody here in Tucson calls you, direct them to the Goodin's. A Very Pleased Customer,

The Nedza Family
Tucson, AZ, since 1996

Pool

Per our conversation this evening: I bought an ECOsmarte whole house POE system and pool system with hydroxide and CO2 from your dealer in October 1999. My neighbors, friends, family and I are very pleased to be able to swim in a chlorine free pool. Friends have commented, and I have noticed, that somehow, the pool water feels "soft". Not like water softened that produces a slick feel. But more like a gentle, enveloping light touch. I was also surprised at how much chlorine is removed by the whole house system. One night I was up very late and filter had begun its backwash while I was cleaning my contact lenses. The fumes and odor for the chlorinated city water were so powerful that I stepped back from the sink. Needless to say, I don't bathe, wash, brush teeth, clean contacts anymore during the backwash cycle.

Thank you,
Bill Gilles
Scottsdale, AZ, received 2002, customer since 1999

Pool + Whole House

We just LOVE your system for our pool! We have a fairly new liner & it is staying the pretty color that it is & not bleaching out from chemicals. My wife is extremely allergic to some chemicals & this prevents her from swimming in a lot of pools. With your system there is no problem. It is easy to maintain. We can go away and we don't have to worry about our pool turning bad. WE REALLY ENJOY THE FREEDOM OF NO CHEMICALS! We'll tell all of Rockford about your Super System! If anyone has any questions about your system, don't hesitate to give them our number & we will be happy to tell them about it.

Tom & Vie Davis (via e-mail)
Rockford, IL, since 1995

Pool

I am writing this letter to inform you that in 1997 we had an in-ground pool installed with your ECOsmarte system. At first, not knowing how to operate it, I was having some problems. I called Erik Nilsen, one of your consultants, and he talked me through the process and what I was to expect. Well, one week later my pool was crystal clear. It has remained that way ever since.

As you stated - no chemicals and pure water. It is a pleasure to swim in our pool. I can't thank you enough for such a wonderful product! You may use my name if you care to as an endorsement for your ECOsystem.

George Maros
Louisville, KY

Pool

Before I found out about the ECOsmarte chlorine and bromine chemical-free hot tub system, I suffered from a skin rash caused from the chemicals in our hot tub. I slowed my use of the hot tub to once per week, but still suffered with the rash. One day we stopped at a store that advertised a chemical-free system on the store windows. After learning how the system works, we not only purchased the ECOsmarte system, but a new hot tub to go with the system. We have had our ECOsmarte system and new hot tub for 5 months and I use the tub every day without any problems to my skin.

The Millers
Rosemount, MN

Spa

I want to personally congratulate you on your great products. I live in Minnesota and we bought a home with a 30- year old Baker concrete in-ground pool in 1991. I had never had a pool before so I had a lot to learn about maintenance. The pool had always been treated with chlorine. After the first year I switched to Bacquacil products on the advice of my eye doctor. He felt I was having reactions to the chlorine. The Bacquacil was better but very expensive. After a couple of years I jokingly asked my pool supply company if they had direct deposit so I could just have my paycheck sent to them. Luckily, I received a brochure from your company 3 years ago. Naturally, I was quite skeptical at first, this had all the appearance of a gimmick that was too good to be true. Well, I'm now convinced you make the best pool products available. Last year my only cost was for some muratic acid from Kmart and soda products from the grocery store.

Thank you so much for providing products that make swimming more enjoyable (no foul smelling chlorine) and less costly and time consuming.

Jerry Lindmeyer (via e-mail)
Since 1994

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Pool

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http://www.youtube.com/watch?v=mssA_kmog24&feature=related

<http://www.youtube.com/watch?v=HGxP7ycCbgI&feature=related>



The BOTTLED
WATER Spa™

In your "ECO TALK" newsletter you are offering free electrodes for testimonials and photos detailing experiences with your product. Here are some of those details and a photo of four of our grandchildren enjoying our "Chlorine Free" pool. Just about one year ago we installed a pool. Prior to that (almost 3 months), we had heard about ECOsmarte from a friend who was enjoying a "Chlorine Free" pool without resorting to Chlorine to keep the water "bacteria free." After reading and hearing about the benefits of your system, we had it installed in our new pool. Immediately, my grandchildren remarked about not having "burning" eyes as when swimming in a conventional Chlorine pool.

One child, John, refused to go for swimming lessons because his eyes burned. Thanks to ECOsmarte, within the last year, John is now a pretty good swimmer. Knowing how important it is for kids to know how to swim, especially where in Arizona where 50% of the homes have pools, we are thrilled that now all our grandchildren are swimmers.

I can highly recommend ECOsmarte as an alternative to Chlorine. ECOsmarte is on our list of "ways to stay healthy."

Ralph Marchese
Scottsdale, AZ, since 1997



My pool has never been this easy to take care of. I don't even add the pH down Joe told me I would need when I bought your system. There is one more thing I would like to report. I have been turning my pool off 3 to 4 days per week and it has been crystal clean since last spring when we installed it. We will have made the money back in less than 3 seasons, not to mention saving time.

Bob Katarik
St. Paul Park, MN, since 1996

[Pool + Glass Media](#)

We have had our copper ion pool system in operation now for one year and just love it. As you know, keeping a pool pure and clean in South Florida can be a task but with the combination of a turbo cleaning system with your purifier makes it an easy task. Thank you.

Thanks again for a great product.

Donald C. Dietz
Lauderhill, FL

[Pool](#)

We are writing this letter to let you know how nice it is to swim in a chlorine free pool! Our daughter, age 4, is extremely allergic to chlorine and breaks out in a rash after swimming in chlorinated pools. There is no odor of chlorine, our skin doesn't dry out after swimming, and no more red eyes! Most of all, no head to toe rashes for our daughter! Thank you so much for making our summer swimming enjoyable here in the heat of Arizona!

The Nardecchia Family
Phoenix, AZ, since 1995, Three systems in three houses

[Pool](#)

I am writing to share with you my very positive experience with your product. I purchased your system in 1996, and thus have begun the third year of usage. Swimming has always been my favorite sport, but unfortunately, I am allergic to chlorine and very sensitive to Bromide. Since I purchased your product, I have been able to swim with no allergic reaction. An added benefit has been the low operating costs and above all, the absolutely crystal clear water.

Thank you for allowing me to enjoy my favorite pastime once again.

David G. Ray
Reedsville, PA

[Pool](#)

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I called you a few weeks ago about a question I had with my copper test kit. Thanks for the help. It seems every time I'm stuck, I call you guys and I get the information I need to resolve any issues I have. Thanks. For your information, I have had the ECOsmarte Pool System now for three summer seasons. I live in Maine where the summers are short, so it is very important to have the pool up and going fast. Your system sure makes it easy and quick to get started. This is what I had to do this spring to get started:

#1 Vacuum the pool, by-passing the filter (I have a DE filter so I just open the discharge valve and vacuum the pool).

#2 Place the DE in the filter.

#3 Tests for pH and Copper (here in Maine, the rainwater has a low pH, it tested at 6.8).

#4 Start the ECOsmarte Pool System on Ionization for a few days to get the copper up and by then, the water was clear and ready for swimming.

That is FANTASTIC, you know, I have not used any chemicals in over two years NONE, no pH adjuster, no chlorine, no shock, NOTHING. This system is quickly paying for itself and the quality of the water is great! So Thanks, for your product and your support staff.

Larry Dube

Winslow, ME, since 1995

Pool

I am very pleased to share my experience with the ECOsmarte swimming pool treatment system, which I installed three months ago. I had been struggling with my pool since I moved in to my current residence 15 months ago. This is the story of my pool.

When I moved in, the house had been vacant for several months and the pool experienced a major algae bloom. I spent the next month dealing with this--large amounts of chlorine shock treatment plus algaecide and flocculent. I even drained one half of the pool volume and refilled it in an attempt to improve water clarity. Please note that I have a covered and enclosed pool, and in the summertime, with green house effect, the pool house temperature is typically in excess of 100 degrees F, and the pool water temperature is in the mid to upper 80's. This is an ideal environment for algae and bacterial growth. After several weeks, I finally achieved acceptable water quality for swimming. This required frequent chlorination, several pounds of shock treatment every three days coupled with chlorine tablets in the floater. In addition copper algaecide was added frequently. I also replaced the sand in my filter, which I would run 12 hours a day. I assumed the slight residual water turbidity was a consequence of the thermal stimulus for microbiologic growth coupled with the relatively high porosity of my sand filter.

ECOsmarte has completely changed the quality of my pool. I had the system installed on a trial basis by my neighbor Joel Cepeda, whose crystal clear outdoor pool has been the envy of the neighborhood. I knew that my indoor pool, with greenhouse temperature effect would be a major challenge for the ECOsmarte system and I remained skeptical that it would work. To make a long story short, within 2 days of installing the system my pool was crystal clear and chlorine free. I could visualize the detailed texture of the pool bottom for the first time! I did not have the ECOsmarte system tied in to the automatic timer initially and operated it manually each day. I then left town for a one week vacation in late August, leaving the system off. Imagine my dismay when I returned home to discover a major algae bloom of the same intensity as when I first moved into the house. I immediately turned on the ECOsmarte system and ran it continuously for 24 hours. The pool was clear the following day. Needless to say, I finalized my purchase of the system on the spot. I tied the system into the timer, and it only requires operation 6 hours a day (as compared to the 12 hours per day pre ECOsmarte) and I have not added any chemical oxidants or algaecide for two months. I simply keep the water pH in the neutral range and ECOsmarte does the rest. The water quality is absolutely superb. I am very excited about this product, which I consider to be a breakthrough technology. I can confidently recommend this system to anyone without reservation.

Thanks ECOsmarte.

Ray A. Wagner, M.D.

El Paso, TX

Pool

Nothing Compares to ECOsmarte

Below we have listed the most common alternatives for sanitizing pool and spa water. You can decide for yourself what system you would like to use in your pool.

Mineral or Catalytic Cartridge Systems

Mineral cartridge systems are sold under the following trademarked names: Nature2, Vision, and FROG. These products kill contaminants, primarily bacteria, in the water as it passes through a cartridge. This means the pump and filter must run for long periods of time to treat the tens of thousands of gallons of water in a swimming pool. Pool suppliers, who sell these systems, often recommend that you run your pump and filter 24 hours per day, 7 days per week. While, these systems do reduce the need for chlorine or other chemical oxidizing treatment, they do not eliminate the need for these chemicals.

These systems also require a trip to the pool store to purchase expensive cartridges. In some cases more than one cartridge may be needed in one season. There is no obvious way to determine when these cartridges fail to be effective. Their effectiveness may expire prior to the cartridge contents being totally depleted.

Bioguanide Chemical Products

Water purification additives containing bioguanide chemicals are sold under the trademarked names of Baquacil, Soft Swim and others. The active ingredient in these products is known as bioguanide. Unlike chlorine, bioguanide is not an oxidizer, so it does not irritate your body by reacting or "burning up" organic contaminants the way chlorine does.

Bioguanide does provide a higher quality of water than chlorine treatment but it is very, very expensive –sometimes costing several times more than chlorine.

Bioguanide needs to be purchased in bulky containers and needs to be manually added to the pool water regularly.

After prolonged use of bioguanide, some pool owners complain that it takes more and more of the product to achieve the desired water quality. Pool owners also mention that the product causes a unique odor in the water after extended use.

Ozone Generators

Ozone generators use a special ultra-violet light to kill bacteria. Like the cartridge systems mentioned above, ozone generators only kill contaminants in the ozone chamber and provide no residual protection to the water in the pool. To be effective, the pool pump must run almost all of the time.

Ozone units designed for swimming pools are expensive and use a lot of electric current. These units are better suited for spas but are not practical for the volume of water in most swimming pools. Even the best ozone units will not totally eliminate the need for chlorine or other chemical oxidizing agents in the pool water.

Be wary of ECOsmarte imitations sold out of Spain, France, Florida and Arizona to name 4 areas with people working out of their garage with "look-a-like" systems.

Salt or Brine Chlorine Generators

Salt generators basically produce chlorine from salt. While salt generators require that you purchase salt instead of chlorine, you are still swimming in chlorine and you can still have the same problems you will experience swimming in a chlorine pool. Salt generators can be expensive devices. Salt generators are also very corrosive and the generator chamber has a limited life and is relatively expensive to replace.

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Ionizers, electric or solar: NO SILVER, IT WILL STAIN

There are numerous ionizers on the market today. Some are solar floating ionizers, some are electric copper and silver ionizers and others are electric copper ionizers. In general terms, ionizers do a good job of killing organic substances in the water but ionization alone is not sufficient to sanitize your swimming pool water. Ionizers still require chlorine or other toxic chemical oxidation to be added to the water to provide adequate sanitization of the water and those with silver will stain your pool as silver has a photographic reaction with sunlight.

Chlorine or Bromine Chemicals

Chlorine is still the most popular means of sanitizing swimming pool water. It does an excellent job sanitizing water, but it does so at a huge price. Chlorine is a very caustic, corrosive chemical. It is effective because it attacks anything organic. Unfortunately, it also attacks the skin, hair, and eyes of the humans swimming in it. Chlorine is toxic and hazardous to handle, ingest or breathe. It is also dangerous to store. Chlorine can be extremely flammable.

Chloramines, a by-product of chlorine and organic waste, are known carcinogens. Unfortunately there is no practical way of preventing chloramines from forming in chlorinated swimming pools.

Maintaining chlorine levels at minimal acceptable levels can be very difficult to do at times. Residual chlorine is highly affected by the water temperature, rain, pH, and number of swimmers. Chlorine is absorbed in the skin of swimmers and therefore the more people that swim in the pool, the more chlorine is absorbed by their skin and the more chlorine that needs to be added to the pool water to properly sanitize the water.

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