



Safe, Crystal-Clear, Chlorine-Free Pools.

Bring swimmers and OPEX reduction in a completely new level!

We design and implement solutions for both new and existing pools that reduce water losses and associated costs, while **eliminating the need for chlorination and chemicals** for **more stable and accurate pH correction and alkalinity control**, all while maintaining crystal-clear water **free from THMs**. We employ four core technologies that elevate both satisfaction and sustainability to the next level.

Efficient, Biofouling-Free Filtration

Removal of particles down to 0.1 micron, while simultaneously preventing biofilm development within the filtration system.



- Reduced backwash losses mean lower expenses for water and sewage management.
- Eliminating the risk of biofouling also eliminates the risk of harmful and toxic THM generation.
- Eliminating chlorine in favor of ozone prevents irritated eyes and skin, while keeping your water crystal clear in a sustainable and health-conscious way.

High Water Recovery Rate

- We reduce backwashing frequency, extending filtration cycles and minimizing the need for frequent backwashing.
- We recover backwash water, reducing your overall water losses to as low as 0.5%.



We combine expertise in ozone treatment, bio-resistant filtration, water chemistry and water recovery to provide solutions that eliminate all risks associated with chlorine and THMs, keeping your pool crystal clear without irritating eyes or skin. At the same time, we help you save significantly on operational costs.



3 Goals:

✓ **Safety**

Pools must be safe for all users, preventing exposure to toxic THMs and ensuring they are chlorine-free, leaving no irritation to eyes or skin.

✓ **Circular Economy**

Reducing wastewater discharge while increasing its recovery reduces your operational costs significantly. Water from chemical-free pool instead being wasted, could be used for irrigation.

✓ **High Efficiency and Reliability, Even in Hot Climates**

Through our expertise, we design highly efficient and successful systems for all pool types, capable of handling water temperatures up to 38°C.

4 Core Technologies:



Bio-resistant Filtration

- Prevention of Biofilm Growth
- Elimination of THM Generation Risks
- Maintains Perfect Water Clarity
- Lasts for 20 Years
- Reduced Power Consumption
- Improved Backwash Efficiency



Advanced Oxidation Process

- Elimination of Chlorine Needs
- No Irritated Eyes or Skin
- Safe and Sustainable
- Highly Efficient Oxidation with Lower Dosages
- Converts into Oxygen



Oxygen and CO2 Ultra Fine Bubbles Dissolution

- Reduces need for powder and liquid chemicals for pH and alkalinity control
- The oxygen gives the bather a smooth silky feel, as if they were swimming in salt water without the salt.



Water Recovery

- Reduces Backwash Effluent Losses to 0.5%
- Lowers Water Costs
- Lowers Heating Costs
- Reduces Sewage Management Costs

We will guide you how to reach above's goals faster and within an optimized budget, ensuring long-lasting effects while enhancing safety and the attractiveness of your pool & water park at every stage.

We employ **carbon dioxide and oxygen** into pool water treatment, saving your OPEX, improving water quality and bringing swimmers experience into completely new level.

pHure Feed



- ✓ Carbon Dioxide based pH control - no acids
- ✓ Elimination of Sodium Bicarbonate
- ✓ Very accurate pH control with improved stability
- ✓ Safe, no hazardous chemicals, no chemical fumes in pump rooms
- ✓ Doesn't increase pool water TDS
- ✓ 100% CO2 utilization - Carbon Negative Solution

AquaGen



- ✓ Reduction of chlorine consumption by 30-50% - proven!
- ✓ Improved skin hydration
- ✓ Reduced skin and eyes irritation effect
- ✓ Improved air quality, reduction of harmful THMs
- ✓ Smooth, silky skin feeling for swimmers
- ✓ **Eliminates discomfort of people with sensitive skin**

AquaFusion



- ✓ Reduction of chlorine consumption by 100% - proven!
- ✓ No THMs, Excellent Air Quality
- ✓ Eliminated skin and eyes irritation effect
- ✓ Combined with pHure Feed - 100% chemicals elimination
- ✓ Drain water from pool can be used for irrigation - no sewage cost
- ✓ **The best option for children and those with skin diseases**

We turn ordinary pools into natural, chemical-free SPA experiences — safer, softer, and more sustainable. No acids. No chemicals. Just pure water powered by safe, abundant gases — enhancing swimmer comfort while significantly reducing operational costs. Proven in warm climates with high ambient temperatures and intense sunlight.



pHure Feed - the first NSF certified plug-and-play CO2 diffuser for swimming pools.

If you're tired of dealing with the detrimental effects of acid destroying your pump room, CO2 is a great alternative. pHure Feed eliminates corrosive fumes and the hazardous handling of chemicals for staff and maintenance. At the same time it helps to avoid significant OPEX bringing stability and safety for your pool water.

Improved Safety

pHure Feed is safer to handle than liquid or dry acid, and no additional dilution is needed.

Superior Water Quality

Carbon Dioxide (CO2) is used in the beverages we drink from soft drinks to sparkling water, while our plants use CO2 to produce the oxygen we breathe. With pHure Feed, you will use this natural compound to balance your water instead of a harsh chemical, resulting in better water quality.



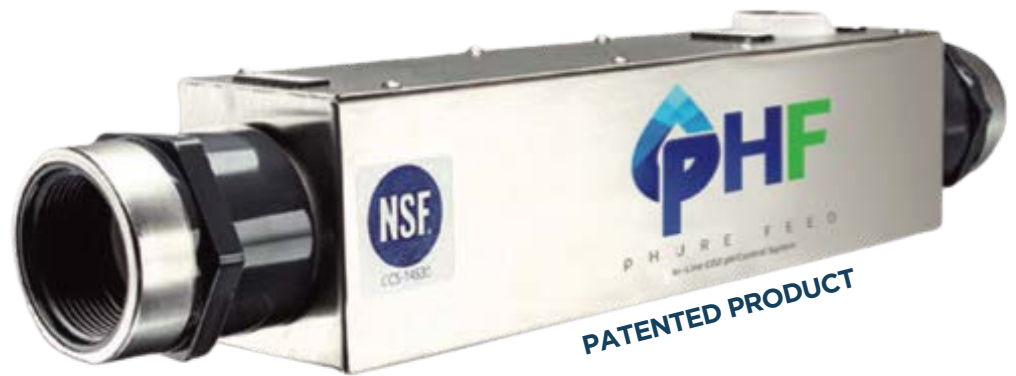
Effect of gas particle size

- By reducing the size of gas particles, we decrease the transfer time from the bulk gas phase to the water.
- The smaller the CO2 bubble size, the higher the probability of carbon dioxide molecules coming into contact with the gas-water interfacial area.

Cost Effective.

Using pHure Feed will not only increase your water quality, it can also reduce your chemical costs.

CARBON DIOXIDE



Take control of pH with **pHure Feed**. We reduce OPEX instantly!

pHure Feed is the only NSF certified carbon dioxide diffuser for pH control and features a staggering 97% - 100% efficiency.



- ✓ No bi-products to contribute to increasing TDS levels in the water
- ✓ Does not have a negative impact on alkalinity
- ✓ Allows alkalinity to rise naturally
- ✓ Greatly reduces or eliminates the need for sodium bicarbonate
- ✓ Carbon dioxide is a natural element of nature!

Your Immediate Benefits

- Reduced Water Consumption
- Reduced Chemicals Consumption
- No more Corrosive Fumes to destroy your Pump Room
- Safer to handle than liquid or dry acids
- Less service needed to balance the water
- The most efficient CO2 system available at 97 - 100% efficiency
- **Up to 70% savings when switching from traditional CO2 feed systems**
- Reduces the facility's carbon footprint

OXYGEN

AquaGen

Hyper Dissolved Oxygen System for commercial pools, spas & fountains

Those that like the feel of salt water will absolutely love the feel of highly oxygenated water. You'll leave the pool feeling refreshed like you just stepped out of the shower. Imagine not feeling dried out or smelling like chlorine the rest of the day after your morning swim; AquaGen makes this all possible!

Improved Air Quality

The beautiful part of using AquaGen is that the byproduct of the system is oxygen. The added oxygen above the surface of the water benefits all swimmers from recreational to professional.

Increased Bather Comfort

The oxygen gives the bather a smooth silky feel, as if they were swimming in salt water without the salt. With the abundance of oxygen in the water, it can allow even those with the most sensitive skin to once again enjoy the swimming environment.

**Proven 30 - 50%
Chlorine Consumption
Less!**



OXYGEN

Why aquaGen ?

✓ **Clarity**

The first thing people notice is how clear the water becomes. We've been told that our pools are as clear as drinking water!

✓ **Refreshing**

Oxygenated water will leave you feeling refreshed and your skin feeling soft and silky - as if you just stepped out of the shower.

✓ **Measurable**

Those that are looking for something tangible for reassurance can measure the amount of extra oxygen present by utilizing a dissolved oxygen meter.

✓ **Savings**

You reduce chlorine consumption by up to 50%, confirmed and proven in many of our installations, avoiding part of OPEX improving air quality.



AquaFusion

Ozone Skid Mounted System

AquaFusion uses pure oxygen and ozone as a significant game changer in disinfecting and oxidizing water. Ozone by itself is 20 to 3000 times stronger than traditional chlorine. By putting ozone into Nano / Ultra-Fine Bubble (UFB) form greatly increases ozone performance up to 950 percent, which is why ozone is the work horse for our systems.

AquaFusion will largely reduce – or even eliminate – the need for common chemicals, providing users with a new improved pool and spa experience while providing the total technology on a self-contained, plug and play skid.



- ✓ no THMs
- ✓ no chemicals
- ✓ clean & safe air
- ✓ OPEX savings

Your Immediate Benefits

- Increased User Comfort WITHOUT Harsh Chemicals!
- Superior Water Clarity, strongest natural oxidizer and disinfectant on the market!
- Refreshing and Invigorating, recommended by Health and Wellness Advisors.
- Perfect for Hypoallergenic Skin Issues, delivers soft, silky water without chemical odors.
- Improved Air Quality for Indoor Applications
- Measurable Technology,
- Big Performance, Small Footprint, Easy to install, Plug and Play.

Results:

Our pool solutions are designed to make swimming safer, healthier, and more sustainable — while reducing operational costs and elevating guest satisfaction.

- ✔ **For Health & Comfort**
Our systems eliminate chloramine vapors and balance water chemistry, preventing coughing, wheezing, and asthma flare-ups. Gentle, stable water protects against eczema, rashes, and eye irritation, ensuring that even children and adults with asthma or skin sensitivities can swim safely. The result is a truly inclusive and relaxing pool experience for all guests.
- ✔ **For the Environment**
Up to 90% of backwash water can be recovered and reused, cutting freshwater consumption dramatically. Reduced discharge volumes mean less wastewater pollution, while optimized dosing lowers chemical use and minimizes harmful byproducts. This makes every pool cleaner and more eco-friendly.
- ✔ **For Efficiency & Cost Savings**
By saving water, reducing energy demand, and optimizing chemical usage, operating costs are significantly reduced. Less strain on equipment extends its lifespan and minimizes downtime, creating long-term efficiency without compromising safety or comfort.
- ✔ **For Guest Experience & Brand**
Guests enjoy crystal-clear, fresher pools without the harsh “chlorine smell.” Families value the reassurance of asthma- and allergy-friendly facilities, boosting satisfaction and loyalty. At the same time, hotels gain a strong differentiator in the market, stronger online reviews, and valuable sustainability credentials.

Steps we take to align your project with a water- and carbon-positive strategy.



We analyze your existing infrastructure or the design of new projects.



We select the optimal scenarios and technical solutions based on your preliminary requirements and goals.



We design the system and offer consulting, project management, and ongoing support throughout implementation and operation.



We assist with commissioning and optimization, and provide training for your engineers and operations team to ensure they have the practical knowledge needed for success.



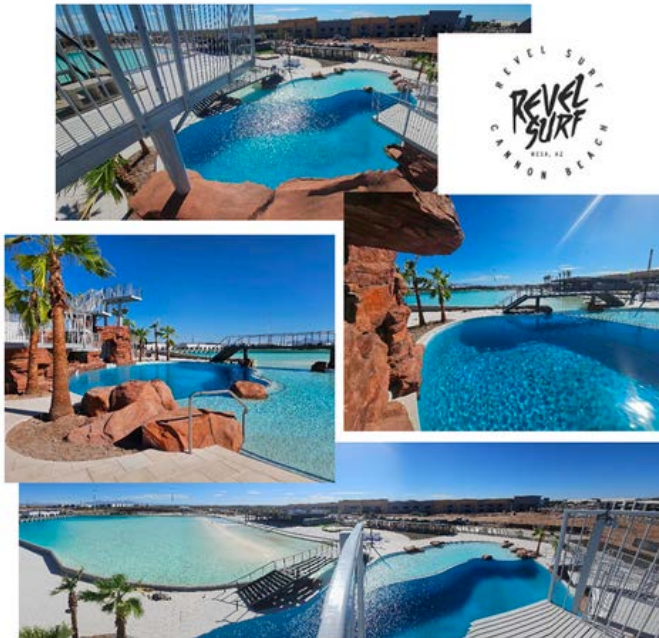
Contact us today and take your pool to the next level of pleasure and efficiency.

You're getting the solution, not just the hardware.

We deliver far more than hardware. Backed by 15 years of proven expertise and our patented static mixer technology, we provide complete gas transfer solutions that are safe, efficient, and reliable across industries. Our team unites water treatment engineers, liquid-gas transfer specialists, and experts in ozone and advanced oxidation processes (AOP) — with a track record of successful projects worldwide.

Selected References

1. Cannon Beach / Revel Surf - 2.8 Million Gallons



2. Durango Hot Springs



3. City of Scottsdale / McDowell Mountain Ranch Aquatic Center



City of Scottsdale - Rec Pool

Competition Pool



4. Queens University of Charlotte



Selected References



Selected References

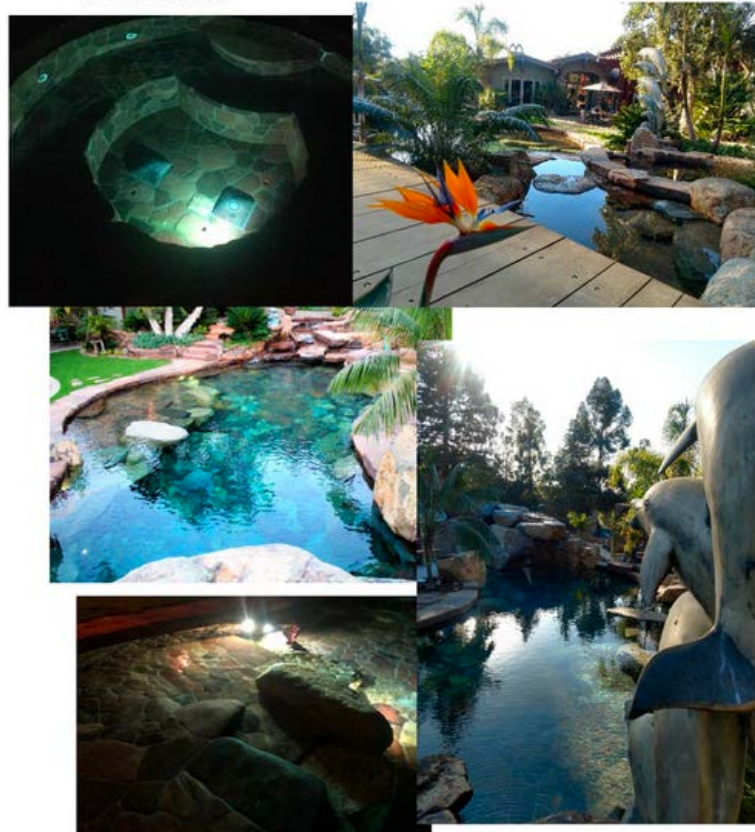
5. Three Forks Ranch



6. Wrigley Residence



7. Vinci Residence



Selected References



We are gas engineers and water chemistry experts.

Founded in 2015, Gaia Water is a team of specialists deeply involved in gas engineering, fluid mechanics, water chemistry, and process design, with more than 15 years of global innovation in advanced water treatment technologies.

We develop and deliver hydrodynamic systems for CO₂ transfer, oxygenation and ozonation.

Based in the United States, Phoenix, we provide not just equipment but complete process solutions — from system design and commissioning to performance optimization and operational support. We have operations in US, EU, UAE, Singapore and Australia & NZ.

Our focus is to help clients achieve stable, efficient, and sustainable water processes through **proven, data-backed engineering**.

Contact us for more detailed information, engineering reports and case studies.



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