

The Clear Solution:

Ozonex™ Water Treatment Systems

Far more beneficial to the environment and more effective in water treatment than traditional chemical systems, ozonation is an exciting, innovative technology used by municipalities, bottling plants, and industries around the world.

The Environmental Protection Agency (EPA) has selected ozonation from a broad variety of processes as one of the best methods to treat water.



As your water treatment system becomes outdated, ineffective, costly, and possibly prohibited by law, consider the following reasons to switch to Ozonex:

Safer for the Environment than Chemical Methods

Ozone is a molecule composed only of oxygen, so unstable that upon contact with water it almost instantly turns into other oxidizers, leaving only oxygen as its primary by-product.

No Toxic Transportation or Storage Hazards

The toxic hazards associated with the transportation and storage of conventional chemicals are eliminated with the use of ozone. Because of its unstable nature, ozone cannot be stored and must be generated on site.

Better Biocide and Oxidizer than Chlorine

Ozone reacts with microorganisms 3000 times faster than chlorine gas. The highly unstable ozone molecule is intensely attracted by the high electron density of bacteria and other microbes. Once in contact, ozone immediately oxidizes and reduces the microorganisms to biodegradable materials which dissolve or can be removed by sedimentation or filtration.

Leaves Water Clear, Fresh, and Odorless

Since the ozonation process leaves behind very little organic matter — and ozone itself is a fresh-smelling, taste-free compound — the treated water bears no odor and remains pure in taste. And because adding filtration removes suspended solids, the water takes on a brilliant clarity.



Ozonated Water Features — Dramatic Increase in Clarity



BEFORE —
An aquatic animal exhibit with chlorinated water.

AFTER —
The same aquatic exhibit with Ozonex water treatment.



STATE-OF-THE-ART, FULL-SERVICE COMPANY

Ozonex markets state-of-the-art, environmentally-friendly products and services for the treatment of water, centered on ozone-based technology.

Our company offers complete, packaged water treatment systems designed specifically for each use category, spanning applications such as:

- Cooling towers
- Potable water distribution
- Water features
- Waste water treatment and recovery
- Aquaculture
- Industrial processing

WHAT MAKES OZONEX UNIQUE

Comprehensive Product and Service Package

Ozonex provides a complete complement of ozonation systems, along with a full range of services including client needs assessment, custom engineering design, installation, monitoring, maintenance, and service.

Unequaled Experience and Technical Expertise

Our breadth of experience and technical capability is unmatched in the industry. Ozonex was started and is backed by a company with over 30 years experience in the hydronics and fluid handling industry. Our technical staff and associates have been selected for their strong backgrounds in mechanical and chemical engineering.

Industry-Leading Standards of Service

Along with providing excellent service to our clients, we seek to promote ozone's advantages of environmental improvement, public health and safety, energy conservation, and industrial operating efficiency. We believe in our product and its benefits to society.



OZONEX PRODUCTS

High Quality, Reliable Systems

Ozonex ozone generators are manufactured by an industry leader which has earned a widely-acclaimed reputation for the research and development of top quality, industrial grade, corona discharge ozonators.

In addition to ozone generation equipment, Ozonex provides filtration and aeration systems, and sophisticated control and monitoring equipment. Computerized, 24-hour monitoring over voice-grade telephone lines is available.

Unique Benefits for Cooling Towers

- Reduces operating costs and improves efficiency
- Prevents and removes the formation of calcium carbonate scaling
- Can reduce corrosion by 50 percent or more
- Lowers water and sewage costs due to reduced blow-down requirements
- Cuts energy consumption by up to 20 percent (according to Southern California Edison Co.)
- One- to three-year payback on investment

Efficient, "Negative Pressure" Technology

One of the most unique characteristics about our generators is their utilization of a "negative pressure" method of transferring ozone to the water, rather than the standard air-compression method used by other systems.

In our negative-pressure, venturi-operated systems, the ozone is drawn in and imploded into the water stream. Systems are over 91 percent efficient in ozone transfer, producing high solubility and overall effectiveness.

Compact, Modular Components

The Ozonex equipment is compact and simple to install. Because our generators are designed as modular, rackable units, they provide precisely the amount of ozone required and can accommodate additional generators and control units as needed.



OZONEX AERATION SYSTEMS

Ozonex aeration systems require much less energy to achieve the same oxygen transfer as competing methods. Because less detention time is needed, the ozone system can increase the throughput of an existing facultative sewage lagoon to serve larger populations. Fish hatcheries can handle more fish per volume of water and lakes achieve breathtaking depths of clarity.

Other aeration systems depend upon many surface aerators that splash water into the air or drive oxygen down with water jets. Surface aeration systems only affect the upper portions of the water body, resulting in a vast dead volume of water. Ozonex aeration systems treat the entire volume of water, creating a natural turnover, and it's all done with one moving part: the compressor. Only minimal maintenance is required.

PROVEN METHODS FOR WATER TREATMENT AND PURIFICATION

Potable Water Supplies

Point-of-use and point-of-entry disinfection, bottled water plants, and beverage manufacturing.

Cooling Towers

Greatly reduces water consumption; can eliminate chemical use and discharges; improves efficiency, lowers maintenance costs, and increases equipment life.

Medical and Laboratory Water

Reverse osmosis (RO) and deionized (DI) water supplies are particularly susceptible to airborne and other microbial contamination. Ozone continuously disinfects open water storage systems; an excellent, safe alternative to oversized closed water supply systems. Ozonex furnishes complete RO and DI water packages.

Industrial Uses

Aquaculture, fish hatcheries; meat and fish processing plants (a major source of water pollution); manufacturing process and cooling water treatment and recovery; hydroponic gardens; commercial laundry water recycling; photo processing bleach batch recovery; wineries (cleaning water recovery); and RO and DI water systems.

Zoos, Aquariums and Sea Parks

Disinfects, controls algae, improves water clarity, and increases oxygen content in water to promote animal growth and prevent disease.

Golf Course Irrigation, Water Features

Treats reclaimed water without chemicals; improves filterability and clarity; and controls odor. Aeration systems promote plant and animal growth.

Swimming Pools

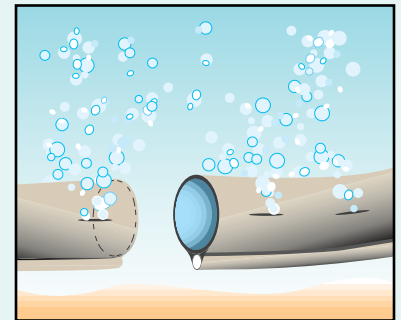
Reduces chemical consumption (can be eliminated in many cases); improves water clarity; controls algae; minimizes eye and skin irritation; and diminishes airborne diseases and irritants in indoor pools.

Water Supply Reservoirs and Lakes

Aeration, filtration, and ozonation processes to disinfect and protect drinking water sources.



Facultative sewage lagoons utilizing the Ozonex aeration system require less detention time and use less energy.



Cut section of Ozonex aeration tubing showing the double chamber system and air release "valves".



Irrigation holding pond using reclaimed treated water.

OZONE: Nature's Purifier

Naturally-Produced

Ozone is and always has been a naturally-occurring gas. Although it is often used as a measurement of air quality, it is *not* smog. It does not come from car exhaust or an industrial process associated with atmospheric pollution.

Ozone is naturally produced during lightning storms or by ultraviolet light from the sun reacting with oxygen in our atmosphere. The sweet, fresh smell in the air after a spring rain is *ozone*.

Safe, Unstable Form of Oxygen

In the process of ozone formation, some of the oxygen (O₂) molecules are split, then regrouped into molecules with three, rather than two atoms of oxygen. The three-atom molecule is called *ozone* (O₃). Ozone is simply an unstable, active form of oxygen, and if not used rapidly, converts back to oxygen (O₂).

Beneficial to Our Planet

Naturally-occurring ozone is an important element to an environmentally-balanced atmosphere. Ozone kills bacteria, viruses, fungi, and molds. Far from being a poison, ozone, when used properly, has been shown to repeatedly kill pathogens yet not hurt normal cells. And ozone in the upper reaches of the atmosphere provides protection from the most harmful of the sun's ultraviolet rays.



FOR INFORMATION CONTACT:

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Satisfaction Guaranteed

"My experience working with [the Ozonex representative] has been exceptionally good, and I can highly recommend him to anyone needing his expertise."

— Senior Vice President
Major Entertainment Company

"With the Ozonex system, we never have to use chemicals in our cooling tower. Corrosion and scaling no longer takes place in our heat exchangers. Since we don't have to shut them down for cleaning, this makes us more productive. I can't wait for our other plant to switch over to the Ozonex system."

— Plant Engineer
Manufacturing Company

"I have found that quality-wise, the way the Ozonex system is put together and how it is priced makes it better than anything else out there . . . I like Ozonex's rack mount system. It has features other ozone systems do not."

— Vice President
Water Bottling Equipment Manufacturer

"Beyond providing excellent water quality, I have found Ozonex's service is unsurpassed. You have always made yourself available and performed in a reliable manner."

— Residential User