



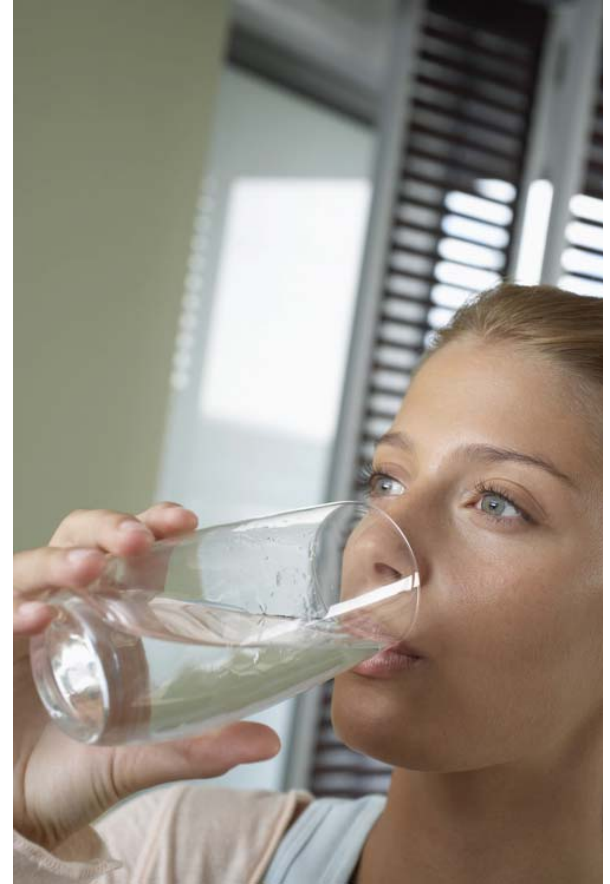
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PRESSURELESS™ OZONE WATER PURIFICATION SYSTEMS

About Ozone Water Purification Systems

Ozone and its uses

Ozone is a powerful oxidizing agent. Twelve times stronger than chlorine, ozone is used to decontaminate water and air. Ozone has been widely used for drinking water purification in Europe and Canada for almost 100 years.

Now and in the coming years, as stringent water quality standards are implemented in the United States, ozone will replace chlorine as the most effective means of purifying water.



Ozonation is often a better choice for water purification than chlorine

Eliminates contaminants

Ozone eliminates dangerous contaminants:

- Bacteria (including Giardia)
- Protozoa (Ozone is particularly effective in killing Cryptosporidium Oocysts, which are not completely killed by most chlorination methods.)
- Algae
- Viruses

Reduces mechanical problems

Ozonation systems are free of mechanical problems commonly present in other water treatment methods:

- Reduces filter-related expenses
- Extends the life-span of carbon filter mediums
- Kills algae and removes slime in industrial biocidal cooling towers
- Eliminates problems such as zebra mussels in surface water cooling stock
- Virtually eliminates scale formation and corrosion

Removes offensive colors, odors and tastes

Ozone removes unpleasant colors, odors and tastes:

- Organic color
- Organic odor
- Organic taste
- Oxidizes manganese and iron, for easier filtration

BENEFITS OF OZONE

Ozone is natural

- Ozone production requires only air and electricity.

Ozone is effective and efficient

- Ozone reduces organic color in raw water, producing a crystal-clear effluent.
- Ozone removes odor- and taste-causing compounds such as algae bloom and hydrogen sulfide, while ozone itself leaves no trace of odor or taste.
- Ozone deactivates viruses and kills bacteria (including Giardia) and protozoa (including Cryptosporidium Oocysts) faster than chlorine. Often less than one minute of contact time is required for disinfection.

Ozone is cost-effective

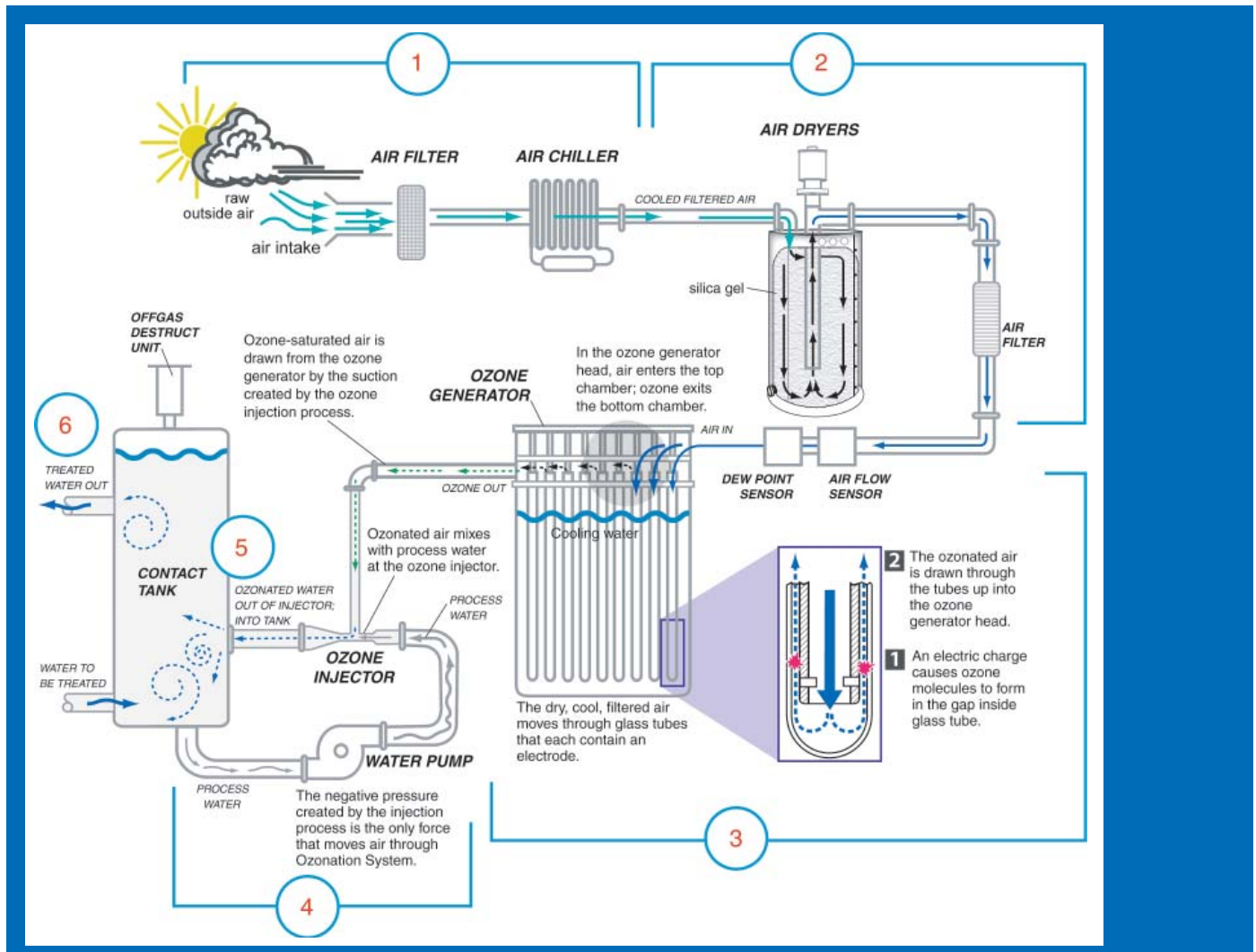
- Because of ozone's superior oxidizing capabilities, smaller amounts of ozone are required compared to chlorine.
- Ozone generation can be stopped by a simple electrical ON/OFF switch, unlike chlorine treatment, which must dissipate over time.
- No storage and handling facilities are required because ozone is manufactured on site, as needed.
- Because ozone virtually eliminates scale formation and corrosion, maintenance and parts replacement costs are greatly reduced.

Ozone is safe

- Shipping, handling and storage of toxic chemicals are not necessary.
- Ozone quickly reverts back to oxygen, so it does not remain in the atmosphere for any significant length of time.
- The ozonation process does not cause ozone to combine with hydrocarbons to form cancer-producing compounds.
- Controlled ozone residuals in water do not endanger aquatic life because ozone rapidly reverts back to oxygen. In fact, ozonated effluent containing high concentrations of oxygen actually enhances stream quality for aquatic life.
- In almost 100 years of use, no human fatality has ever been attributed to the use of ozone for water disinfection or other pollution control applications.



Ozonation Process



- 1** Air from outdoors is filtered and cooled.
- 2** Air dryers dehumidify the air.
- 3** The dry, processed air is drawn into an ozone generator, where it passes through electrical corona-discharge fields, creating ozone.
- 4** The ozone is drawn into injectors, where it is mixed with *process water* (water used only for the purification process).
- 5** The ozone/process water mixture flows into a contact tank, where it is mixed with the water that needs to be purified.
- 6** Purified water flows out of the contact tank.



About Ozone Technology, Inc.

Founded in 1985, Ozone Technology, Inc. designs and manufactures ozone generating equipment and systems used primarily for water purification and disinfection, as well as for numerous industrial applications.

Ozone Technology has a 20-year operating history and an established reputation for producing exceptionally reliable equipment, excellent custom system designs, and quality customer service.

Pressureless process

Ozone Technology's ozonation systems use a unique, safe, *pressureless* process as opposed to the pressurized/compression systems offered by other companies.

The only force that moves air and ozone gas through the system is the suction (vacuum) created by venturi injectors.

This *pressureless* process results in less power usage, less maintenance, and lower parts replacement costs, while substantially increasing system life span and reliability.

This unique negative pressure ozonation system has been referred to as the "diesel engine" of the ozone industry.

Applications

Ozone Technology systems are in use by small and large municipal water treatment plants. Ozone Technology systems can provide your community a highly efficient, cost-effective means of drinking water purification.

Ozone Technology's ozonation systems offer the **lowest personnel requirements** and **lowest maintenance costs** in the industry.

Ozone Technology systems are also ideal for zoos and other animal, avian and aquatic environments.

Products

Ozone Technology products include entire total water treatment systems, as well as individual ozonation system components:

- Ozone generators
- Air dryers
- Turbine injectors
- Ozone off-gas scrubbers

Ozone Technology, Inc.
7303 Burleson Road, Suite 406
Austin, Texas 78744 USA

www.o3ti.com
sales@o3ti.com

800.806.9789 toll free
512.386.5147 phone
512.386.5163 fax

"We're very satisfied with the Ozonation System. The equipment operates perfectly. An A+ to Ozone Technology!"

— Tommy Carswell,
Manager of Operations,
Four Way WSC

"The Ozone Technology system works great. The flamingo exhibit water is clear and odor free. I'm very pleased."

— Roger Boggs,
Manager of Operations,
Caldwell Zoo