

SoluOxTM

NANOTECH GASIFICATION OF LIQUIDS

Introducing **SoluOx™**, America's first high performance nano bubble generator for enhanced aeration or gasification of liquids. A technological breakthrough in the creation of nano sized bubbles. **SoluOx™** patented method is a simple robust system uniquely incorporating nano materials with ultra fine pores to generate nano bubbles with unrivaled efficiency and effect. **SoluOx™** aeration devices are 200x more efficient than other fine bubble aeration technologies and can be utilized in a variety of applications for significantly superior gas transfer rates and a wide range of benefits.

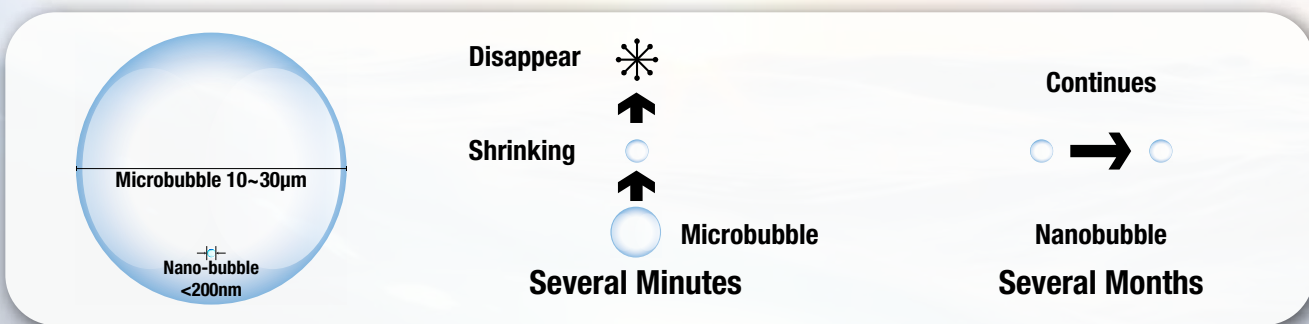
SoluOx™

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Applications Include:

- Water Treatment
- Food Sterilization
- Tissue Preservation
- Aquaculture
- Hydroponics
- Cooling Towers
- Environmental Remediation
- Hypoxia Treatment

SoluOx™ generator's rapidly produce and inject nano-sized bubbles into liquids with minimal energy and maximum gas utilization. These extremely small bubbles have several unique properties that allow them to perform very differently from normal micro bubbles. Most notable is their long lifetime in liquids due to their negatively charged surfaces and high internal pressure. Whereas micro bubbles increase in size, rise rapidly and burst at the water surface, nano bubbles remain in suspension for prolonged periods of time. The increased surface area of injected gases provides greater gas availability and efficiency.



SoluOx™

BUBBLE GENERATOR HIGHLIGHTS

- Simple Patented Robust Design
- No Moving Parts
- 96% Efficient Gas Transfer
- Usable with Any Gas
- Can Handle Solids up to 10mm
- Variable Flow Rates and Model Sizes
- Lowest Cost
- Unaffected by pH
- Wide Range of Operational Temperatures

APPLICATIONS AND BENEFITS

WATER TREATMENT

Beyond **SoluOx™** generators being a highly efficient at increasing dissolved oxygen levels for biological treatment systems, it can also be employed to treat a broad range of volatile organic compounds. Through the physical process of forming nano bubbles, the available oxygen in the air becomes activated, creating OH^- and O_3 molecules. These powerful oxidizers decompose organic chemicals and contribute to the beneficial breakdown of toxins within biological systems and the natural environment.

AQUACULTURE

Integrating nano sized bubble aeration into aquaculture farming, fundamentally improves the dissolved oxygen levels in the water and has been demonstrated to increase fish and crustacean growth rates by 30%. Nano bubble's sterilization potential has also shown to significantly lower fatality rates by suppressing water borne diseases and bacterial infections, thereby allowing farmers to reduce or eliminate antibiotic drug use.



COOLING TOWERS

Cooling tower water containing nano bubbles enhances the vaporization potential of the liquid by increasing surface area, which in turn improves the efficiency of water-cooling towers. Combining ozone with the nano bubbles has the benefit of adding a powerful anti-microbial agent that reduces biofilm from building up and increasing the efficiency of the cooling process.

STERILIZATION

When nano bubbles contract and collapse they generate reactive oxygen species (ROS) that can be further potentiated by adding ozone to create a very powerful sterilizer – many times more powerful than chlorine. Active oxygen has a very short lifespan and has no harmful by-products; therefore food sterilization using nano bubbles is an extremely safe and effective treatment.

ENVIRONMENTAL REMEDIATION

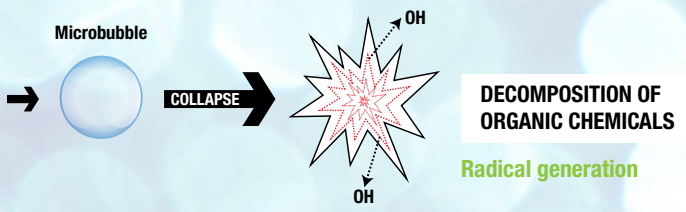
By introducing nano bubbles into water bodies beneficial bacteria are able to effectively process the waste elements and repurpose them for their nutritional benefits. This results in a biological chain reaction that can significantly improve the biodiversity and health of an ecosystem. Because nano bubbles can be distributed over a wide area they can also be implemented to treat large bodies of water affected by oxygen starvation or hypoxia. **SoluOx™** generator's can be used to treat ponds, rivers, lakes and even open lagoons.

HYDROPONICS

Oxygenating hydroponic waters with nano bubbles significantly improves the available oxygen to the plants and has been shown to improve nutrient uptake and promote growth by up to 30%. Nano bubbles can also prevent nitrates from accumulating within the tissues of the plant and helps maintain a healthy physiological balance boosting the plants natural resistance to disease. Adding ozone with the **SoluOx™** has also proven to be highly effective at suppressing pathogenic bacteria and fungal infections in the plants.

DRINKING WATER FOR ANIMALS

Drinking water with oxygen-nano bubbles contributes to elevated metabolism, higher food intake, and promoted growth in farm-raised animals.



PERFORMANCE GUARANTEED



SoluOx™ Model Options: About Us

10 XTB	(10 GPM)
50 XTB	(50 GPM)
100 XTB	(100 GPM)
200 XTB	(200 GPM)

Moleaer (latin for tiny air) is a technology company that specializes in developing innovative high-tech solutions for a wide variety of industrial and environmental applications. We integrate nano scale materials into proprietary technologies and provide a range of products that improve the treatment of wastewater, enhance agricultural output and liquid-gas mixing applications. Moleaer is fundamentally reshaping the aeration industry and is poised to take the wastewater industry by storm. It's flagship product called SoluOx is so radically energy efficient at transferring oxygen into water, it will become an integral component to any wastewater treatment plant looking to avoid costly capital upgrades in order to achieve meaningful cost savings. Moleaer aims to elevate our client's environmental stewardship while improving the quality of manufacturing and production. Moleaer is committed to the development of its' patented technology in new applications and fields that can benefit from disruptive technologies. Perhaps the most interesting of which is the medical fields.

SoluOx™
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Smarter Technology for Superior Results



Made in America



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