S NBOT Labs



Nanobubble Ozone Technology

Water treatment with an innovative, chemical-free solution that effectively eliminates contaminants at scale.

Patented ozone-infused nanobubble technology eliminates harmful contaminants - algae, bacteria, viruses, PFAS, TCE, and others - without filters or toxic chemicals.

Developed and tested in partnership with the National Oceanic & Atmospheric Administration (NOAA), ensures cleaner, safer water for industrial, agricultural, and municipal use, improving health, ecosystems, and water sustainability.

Scalable, configurable, and eco-friendly – all that's leftover after treatment is an increased level of oxygen.

How It Works

Generates ultra-fine nanobubbles infused with ozone, producing hydroxyl radicals - oxidants over 100,000 times stronger than chlorine. These nanobubbles:

- Break down contaminants at the molecular level
- Remain suspended in water for up to 10 days, ensuring long-lasting treatment
- Eliminate pollutants at a scale unmatched by traditional methods like chemical dosing, filtration, or UV sterilization

Proven Results

NBOT technology has been rigorously tested in real-world applications, demonstrating unmatched contaminant reduction:

- Algae Blooms: Achieved 90% reduction in toxic algae at Lake Newport, Ohio, preventing dangerous algal toxins from entering drinking water supplies.
- Bacteria & Viruses: Eliminated 98% of bacteria at a North Carolina hog lagoon, providing a safer, more efficient alternative to traditional wastewater treatments.
- Antibiotics & Organic Pollutants: Demonstrated rapid breakdown of pharmaceutical residues and harmful organic compounds in agricultural and industrial wastewater.

• Heavy Metals: Reduced concentrations by >90% within 24 hours at Port Mayaca Lock, Lake Okeechobee, improving overall water quality.

Applications

• Lakes, Rivers, and Reservoirs - Restores ecosystems and prevents harmful algal blooms

• Agriculture and Aquaculture - Reduces bacterial contamination and antibiotic residues

• Municipal and Industrial Water - Provides a cost-effective, chemical-free alternative for drinking

water, cooling towers, and wastewater treatment

• Livestock and Poultry Processing - Enhances water reuse efficiency & eliminates pathogens

Available Spring '25



www.carbonintel.net

Bevan Suits 404 4211894

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Case Studies



Lake Meyopot, OH
• Surface and suspended also eliminated.
• Substantial decrease in orgonic contaminants.
• D0 increased to 12 ppm.
• Boost in fish / marine life.
Before
After light l



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The Science

Nanobubbles

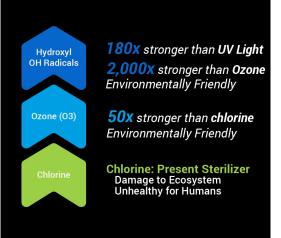
Long Lasting Effectiveness

- Acts like a gas, diffusing throughout the entire water column for full coverage.
- No rising or bursting controlled, efficient ozone delivery
- Release hydroxyl radicals upon implosion -
- supercharging breakdown of contaminants
- Active for up to 10 days.
- Continuously neutralizes harmful bacteria and toxins, keeping water cleaner for longer.

Hydroxyl Radicals

- One of the most powerful oxidants known to science
- 100,000x stronger than chlorine.
- Indiscriminately destroys contaminants.
- •Works exponentially faster and more cost-effectively than traditional chemical treatments.





Metals, Phosphorous, Nitrogen

Lake Okeechobee

Arsenic	Pre-Treatment .0064	12h .0043	24h .0021	36h .0004
Lead	.0078	.0078	.0011	.0011
Nitrogen	410	110	3.4	1.0
Phosphorous	28	6.8	0.48	0.48

PFAs

