



NICO Nanobubbles offers cost-effective sanitization using chemical-free Ozone nanobubble-infused water.

Our trials and field pilots demonstrate effective biofilm prevention, extended shelf life, and substantial reductions in targeted pathogens.

HOW IT WORKS

- Cleans Deep:** Nanobubbles reach tiny crevices, lifting dirt and residues.
- Kills pathogens:** Ozone or oxygen bubbles release natural oxidizers that break down pesticides and destroy bacteria.
- Preserves Freshness:** Added oxygen slows spoilage and reduces harmful microbes.

BENEFITS OF NICO NANOBUBBLES IN VEGETABLE WASH

NICO Nanobubble ozonated water doesn't produce harmful chlorine byproducts like chloramines and doesn't demand a specialized disposal system. In certain municipalities, processors may need to treat chlorine with extra chemicals before disposal. Ozone nanobubbles naturally break down into oxygen, posing no harm, allowing the release of ozonated water back into the environment or for recycling.

Early research findings indicate that ozone nanobubbles hold significant promise for effective cleaning. They have shown the ability to eliminate *Escherichia coli* O157:H7 in contaminated water that doesn't contain organic matter. Additionally, they have demonstrated substantial reductions of *Salmonella* and *Listeria* bacteria. These NICO Nanobubbles also prove effective in reducing germ levels in dirty water and on surfaces where food comes into contact, ensuring thorough cleanliness. Furthermore, studies conducted in collaboration with our university partner reveal that ozone nanobubbles are comparable to conventional cleaning chemicals in their ability to remove slimy biofilms from surfaces. Moreover, they exhibit a unique capacity to prevent the formation of new biofilms over a period of time.

Produce Type	Effect
Leafy greens (spinach, lettuce)	Removes dirt and pathogens without wilting
Berries (strawberries, blueberries)	Reduces microbial load, maintains texture
Apples, grapes	Removes pesticide residues and waxy coatings
Tomatoes, cucumbers	Cleans without damaging the skin or causing waterlogging

NICO NANOBUBBLE GENERATOR SYSTEM



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