

# NICO NANOBUBBLE GENERATOR FOR AQUACULTURE



## NICO NANOBUBBLES

NICO Nanobubbles, a cutting-edge technology announcing a paradigm shift in Aquaculture, has recently captured attention. Their infinitesimal size confers remarkable stability, enabling them to remain suspended in water for significantly extended durations. NICO Nanobubbles have the potential to completely improve the Aquaculture industry by improving nutritional provision, reducing stress, and raising the standard for environmentally friendly farming methods.



## CHALLENGES IN AQUACULTURE

- Access to land and water & overstocking
- Lack of dissolved oxygen & sedimentation
- Poor water quality & disease outbreaks
- Organic matter accumulation
- Pathogen and parasite control
- Product quality



## BENEFITS OF NICO NANOBUBBLES IN AQUACULTURE

- ✓ **Increase the Dissolved Oxygen Level:** Oxygen NICO Nanobubbles, with their ultrafine size, allow them to stay suspended in water for extended periods and enhance oxygen transfer efficiency.
- ✓ **Waste Degradation:** When Oxygen and Ozone NICO Nanobubbles are introduced into the system, they form reactive oxygen species (ROS) that oxidize organic matter and other suspended particles, improving water quality.
- ✓ **Pathogen Control:** When Ozone NICO Nanobubbles are introduced, they oxidize the outer structure of harmful bacterial, fungal, and viral organisms and destroy them, preventing disease outbreaks. This method is much more effective than usual methods in eradicating these species, and there is no need for further draining or disinfecting of the water.
- ✓ **Probiotic and Nutrient Carriers:** NICO Nanobubbles can enhance the uptake of probiotics and nutrients by encapsulating them. Probiotics also aid in breaking down complex compounds in the feed and suppress the growth of harmful bacteria in the water.
- ✓ **Enhanced Water Circulation:** NICO Nanobubbles act as a natural buoyancy force, and their brownian motion causes water circulation within the pond, helping distribute oxygen and nutrients evenly.
- ✓ **Sustainable Solution:** NICO Nanobubbles offer a distinctive advantage; comprising only gas and water, their application carries minimal risk of introducing harmful chemicals or residues into aquatic ecosystems.
- ✓ **Enhanced Growth Rate and Quality:** NICO Nanobubbles, by enhancing oxygen supply, nutrient uptake, eliminating pathogens, and reducing waste, promise accelerated growth and quality improvement.