



IRRIGATION RESERVOIRS & BASINS

About Moleaer

Moleaer produces cost-effective and proven solutions that increase productivity, reduce reliance on chemicals, and help restore balance to water bodies through nanobubble technology. Over 500 growers worldwide trust Moleaer's nanobubble technology to treat irrigation water to increase productivity and improve sustainability.



Reservoir Water Quality Challenges

Rising global temperatures and climate change exacerbate water quality challenges. Algae growth, pathogen proliferation and water scarcity are all factors that impact plant growth and lead to crop loss. Growers who use water storage basins are experiencing issues with:

- Low Levels of Dissolved Oxygen (DO)
- Algae Blooms
- Pathogens and Biofilm

Water

- Increase dissolved oxygen (DO)
- Improve water cleanliness to reduce chemical usage
- Reduce algae growth, pathogens and biofilm

Soil & Substrates

- Reduce water surface tension to improve water infiltration
- Flocculate soil to reduce compaction
- Improve aerobic conditions in the root zone

Plants

- Better root and plant development
- Improve crop yield and quality
- Improve nutrient uptake efficiency

BEFORE



AFTER



Nanobubble Products

CLEAR



NEO



NEXUS



TITAN



Specifications

| | CLEAR | NEO | NEXUS | TITAN |
|---|----------------|-------------------------|----------------------------------|----------------------------------|
| Treatment Capacity (GPD) | 72,000-216,000 | 72,000-360,000 | 360,000-720,000 | Based on Customer Specifications |
| Total Energy Consumption (kW) | 1-3.2 | 1.1-4 | N/A | |
| Gas Flow (SCFH) | 0-30 | 0-60 | 0-180 | |
| Gas Options Air = 20% O ₂ Onboard Oxygen = 93% O ₂ External Oxygen = 100% O ₂ | Air | Onboard Oxygen Ozone | Air External Oxygen Source | Air Optional Gas Skid |

Case Studies: Reservoirs

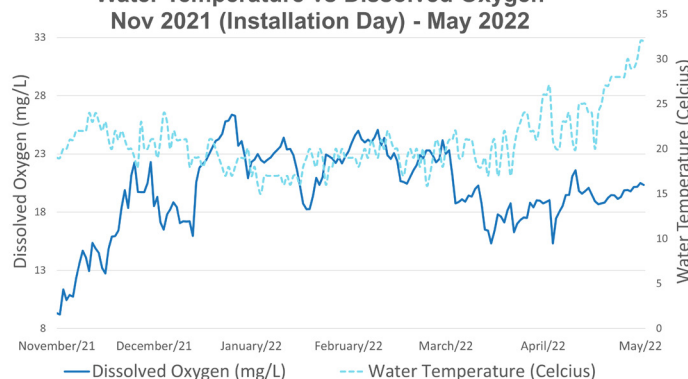


Biosabor Spain

9.2-million-gallon (35,000 m³)

- Increased DO from **8 ppm to over 20 ppm**
- Maintained **average of 20 ppm** during warmer months

Water Temperature vs Dissolved Oxygen Nov 2021 (Installation Day) - May 2022



Freeman Herbs Canada

6.1-million-gallon (23,000 m³)

- **50%** higher H₂O₂ residual
- **50%** reduction in filter cleaning
- Reduction in microbial counts



Prominent Grevelingen Netherlands

2-million-gallon (8,000 m³)

- Reduction backflushing
- **50%** reduction in hydrogen peroxide for cleaning