

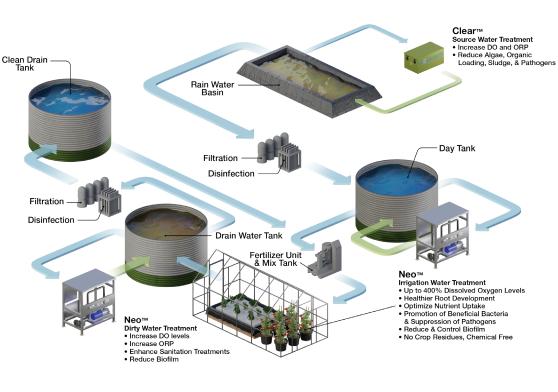
HORTICULTURE



About Moleaer

Moleaer produces cost-effective and proven solutions that increase productivity, reduce reliance on chemicals, and help restore balance to the environment through nanobubble technology. We partner with experienced engineering and innovation teams at world-renowned universities, including UCLA, Arizona State University, Clemson University, University of Pittsburgh, Wageningen University, and Virginia Tech University, to validate new applications of our nanobubble technology. Through these partnerships as well as over 450 installations across 32 countries on 6 continents, we have proven that nanobubbles can solve a wide array of challenges in the horticulture industry across the irrigation water cycle to improve crop health.

Irrigation Water Cycle in Greenhouses





Proven Horticulture Benefits

Moleaer nanobubbles efficiently enhance water in multiple stages of the growth cycle. Nanobubble enriched water has been proven to improve water quality and soil, root, and plant health while lowering treatment and oxygen costs. Many growers have also experienced increases in yield.

Improved Water Quality

- Algae reduction in source water
- Reduced Pythium levels
- Metal oxidation
- Reduced reliance on chemical treatments
- Reduction of biofilm in irrigation pipes
- Increased dissolved oxygen in water with nearly perfect gas transfer to reduce oxygen costs

Root, Soil & Plant Health

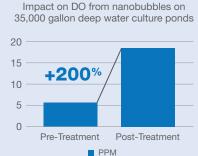
- Healthier root development
- Increased nutrient uptake
- Improved water retention in soil
- Improved vegetative growth
- Larger fruit size and yield

Improve Water Quality

Increase DO, and reduce algae and biofilm

• Improve water quality and plant health in warm climates through effectively elevating dissolved oxygen with highest oxygen transfer, regardless of water depth.

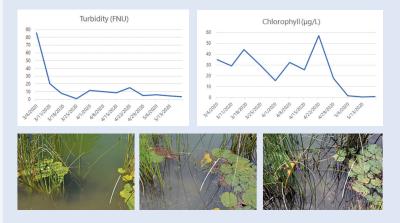




 Eliminate or reduce algae and pathogens in source water through increased oxidation-reduction potential (ORP). Prevent and treat biofilm buildup in piping.

5M gallon irrigation pond

- Turbidity: Decreased by 50%
- Algae: Decreased by 99%
- Iron: Decreased by 50%
- Total Dissolved Solids: Decreased by ~20%

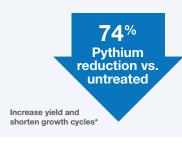


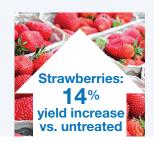
Root, Soil & Plant Health

Better root health and nutrient absorption, suppression of plant diseases.

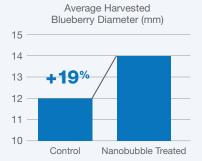


 Pythium counts: 74% lower in samples treated with oxygen nanobubbles (ONB) vs untreated control





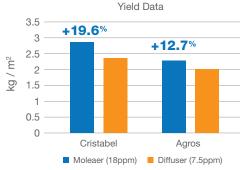
 Blueberry plants irrigated with oxygen nanobubbles had healthier root mass and lower instances of disease





- Plants treated with ONB water showed significantly better vegetative growth
- Fruit size and quality was improved with ONB treatment







Crop	Seed to Harvest (Days)	Avg Weights (oz) Venturi 7.5 ppm Do	Avg Weights (oz) XTB Nano 29 ppm Do	Yield Increase (29 ppm vs. 7 ppm)	
Red Rubin Basil	31	0.5	0.69	38%	
Italian Basil	44	1.5	2.25	50%	
Arugula	49	2.18	3.4	56%	
Red Butterhead	38	3.31	4.66	41%	

*Organic, bio-based nutrients may impact biofilm accumulation rates. The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. Moleaer assumes no liability for results obtained or damages incurred through the application of the information contained herein. Customer is responsible for determining whether the products and information presented herein an appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactmental enactmental ensuremental enactmental ensuremental ensuremen

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