

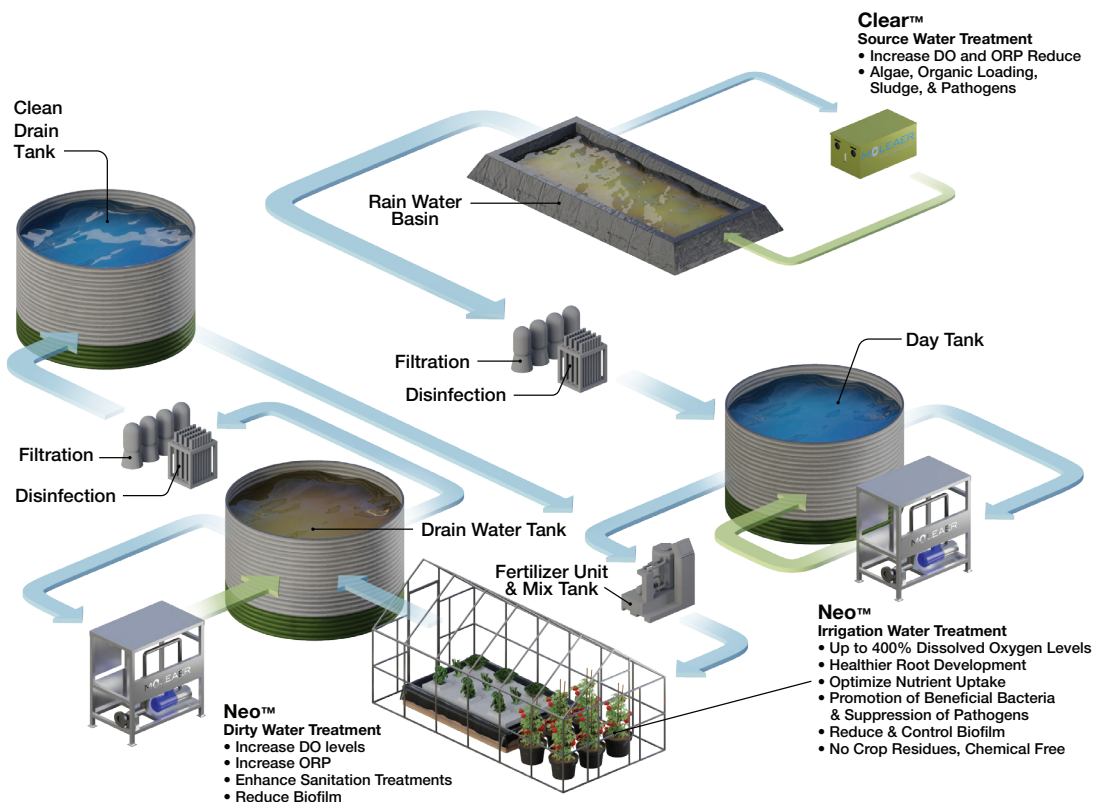


CANNABIS

About Moleaer

Moleaer is the global leader in nanobubble technology. 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, Leading research institution in the Netherlands, and Virginia Tech University, to validate new applications of our nanobubbles 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 Cannabis Benefits

Moleaer nanobubbles efficiently enhance water quality in multiple stages of the growth cycle. Nanobubble enriched water has been proven to improve water quality and soil, root, and plant health while reducing or eliminating the need for chemical treatments and associated costs. Many growers have also experienced increases in yield and THC and CBD concentrations.

Improved Water Quality

- Algae reduction in source water
- Reduced Pythium levels
- Iron oxidation
- Reduced reliance on chemical treatments
- Reduction of biofilm in irrigation pipes

Plant Health

- Healthier root development
- Increased nutrient uptake
- Increased yield
- Higher THC and CBD concentrations



Case Studies

U.S. CUSTOMER BASED IN THE NORTHEAST

- Leading vertically integrated medical and wellness cannabis operator in the US with 12 cultivation centers across the U.S. serving over 100,000 patients.
- Substrate: Rockwool

Table	Strain	Number of Plants	Table Area (ft ²)	Plants / ft ²	g / ft ² DRY	Yield Increase 02NB
1	GG4 Control	215	184	1.17	56.7	22.6%
2	GG4 02	216	184	1.17	69.6	
3	WAP CONTROL	212	184	1.15	56.0	23.5%
4	WAP 02	210	184	1.14	69.1	

LEADING RESEARCH INSTITUTION IN THE NETHERLANDS

The Study:

Moleaer and Royal Brinkman participated in trials at a leading research institution in the Netherlands to study the effects of Moleaer nanobubbles and oxygen enrichment in the substrate on cannabis cultivation in consecutive plantings in 2019 & 2020.

Study Parameters:

- Glass Greenhouse
- Substrate: Rockwool
- DLI between 30-40 MOL

TRIAL 01 – SUMMER 2019

Treatment	Variety 1 THC %	Variety 2 THC %	Variety 3 CBD%
Control Group	11.6	6.9	5.3
Nanobubbles	12.9	7.6	5.7
Difference	+11.2%	+10.1%	+7.5%

TRIAL 02 – AUTUMN 2019

Treatment	Variety 1 THC %	Variety 2 THC %	Variety 3 CBD%
Control Group	6.0	4.6	7.1
Nanobubbles	6.9	5.2	7.7
Difference	+15%	+13%	+8.4%

RESULTS – SUMMER 2019

Treatment	Dry Weight Average (all varieties)
Control Group	55.5
Nanobubbles	68.6
Difference	+23.6%



*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 are 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 enactments. Specifications subject to change without notice.

Copyright © 2020 Moleaer. All trademarks stated herein are the property of their respective company. All rights reserved. This document is confidential and contains proprietary information of Moleaer Inc. Neither this document nor any of the information contained herein may be reproduced, redistributed or disclosed under any circumstances without the express written permission of Moleaer Inc.