





Your Partner in Sustainable Growing

- Knowledge and expertise in oxygen and nanobubble technologies
- Helping you to grow "green"
- Delivering chemical-free growth medium
- Scientifically proven methodology to produce strong and healthy plants









Oxygen Content is a Critical Factor

- Every plant needs oxygen in their root zone to grow healthy
- Excess oxygen boosts plant immunity;
 the plants won't get infected so easily
- Extra oxygen can be stabilised into water only by storing it to nanobubbles
- o Water oxygen content (DO):
 - < 4 mg/l depleted (<35%)
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 - o 5-8 mg/l normal (45-70%)
 - > 8 mg/l good (>70%)
 - o 18-20 mg/l enhanced with AgriBubble Technology





Role of Oxygen in Irrigation Water

"Fixing the cause instead of trying to eliminate the symptoms."

Water based oxygen is consumed by;

- Vital functions of plants
- Healthy microbiome
- Organisms in water

If not enough water based oxygen is available for plants;

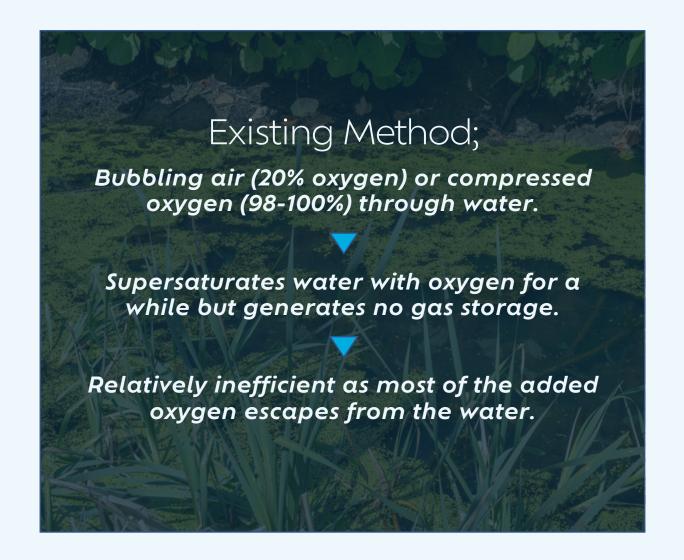
- Decreased immune defence
- Growth of harmful microbes
- Disturbed nutrient absorption
- o Plants are stunted and can die





Dissolved Oxygen (DO)

- Easily available for living organisms
- Relatively short in supply
- The higher the water temperature, the lower the DO content
- Oxygen is consumed by all living organisms growing in the water e.g. in irrigation water ponds









Oxygen Gas Nanobubbles

- Nanobubbles act like oxygen gas stores in water
- They provide a long-term oxygen supply
- As the dissolved oxygen is being consumed, more is released from the nanobubbles

Nanobubbles as such have useful physical properties;

Improving nutrient absorption to plants

Decreasing
biofilm growth
in water
systems

Limiting growth
of harmful
anaerobic
bacteria



AgriBübble Innovation for the Agricultural Industry



Oxygen Nanobubble Generator

- Harvests oxygen from the surrounding air and injects it into water
- o Part of the harvested oxygen is dissolved (30%) and the rest is packed into nanobubbles
- o Increases water-based oxygen storage at least by up to 350%
- o Plug and play integration into automated irrigation and feeding systems



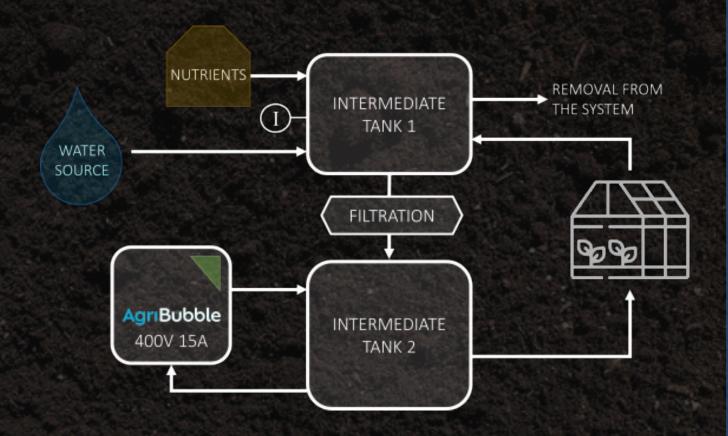


AgriBubble Installation

Circulating Irrigation Systems

Compatibility

- Any water quality (special parts for brine)
- o All crops
- All substrates and hydroponics
- All fertilizers
- Some chemicals might flotate out



Example of Energy Consumption

4m³ container of water, having initial oxygen content of 5 mg/l, is concentrated up to 20 mg/l oxygen content with 1 kW of energy.



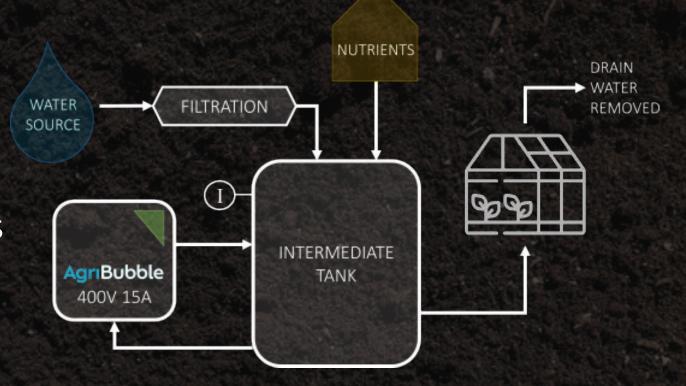


AgriBubble Installation

Flow-through Irrigation Systems

Compatibility

- Any water quality (special parts for brine)
- All crops
- All substrates and hydroponics
- All fertilizers
- Some chemicals might flotate out



Example of Energy Consumption

4m³ container of water, having initial oxygen content of 5 mg/l, is concentrated up to 20 mg/l oxygen content with 1 kW of energy.





Without AgriBubble

With AgriBubble







350% More Dissolved Oxygen





Clear Difference







Clear Difference







Clear Difference





Clear Advantages



Healthier
Plants &
Better Yield

Increased
Plant
Growth Rate

Decreased Crop Loss

Invest & Save Less Stress to Plants & Farmers



