

## Improving the Quality of Microgreens and Herbs with Nanobubbles



**Waterfields:** Waterfields is an Ohio-based greenhouse, specializing in growing premium, specialty leafy greens, herbs and microgreens for Cincinnati chefs and the Midwest and Southern markets.

**The Challenge:** In 2019, the team was opening a new 16,000 sf Deep Water Culture (DWC) greenhouse. In the past, the team had problems with Pythium that was particularly prevalent during the warmer summer months. Once Pythium inoculates roots and proliferates through a cultivation system, it can be very stubborn to get rid of. Frequently, the best course of action is to do a deep cleaning which can be very costly due to a loss in production time. As such, the team was focused on utilizing a technology that could help suppress Pythium growth and mitigate any deep cleaning and sanitizing outside of scheduled maintenance.

**Our Solution:** Waterfields selected Moleaer's Bloom nanobubble generator to increase and maintain the dissolved oxygen levels at an optimal level for maintaining water quality, pathogen suppression and plant health. The Bloom's ability to ramp up and down, highly economical use of oxygen and precise control over oxygen injection rates, provided the controls and flexibility the Waterfield's team was looking for to manage their pond water quality. Once installed, the Bloom provided a constant injection of oxygen nanobubbles into the pond water, providing a rapid increase in dissolved oxygen to above 10ppm even in the warm water summer conditions.

### Results:

- Stabilized dissolved oxygen levels to 10-12 ppm
- Developed healthier roots and more resilient yields
- Maintained growth in >86F degree water with no Pythium issues

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