

# MI FLOWER ACHIEVES CONSISTENT, SUPERIOR PLANT HEALTH WITH MOLEAER NANOBUBBLE TECHNOLOGY



**Client:** MI Flower LLC

Crop:	Grow Specifications:	Challenges:	Results:
Cannabis	Autopot system with coco coir substrate	<ul style="list-style-type: none"> <li>Poor and inconsistent root health and development</li> <li>Frequent intervention and additives</li> <li>Late-stage plant stress and poor flower development</li> </ul>	<ul style="list-style-type: none"> <li>Enhanced vegetative and flowering stage</li> <li>Better, more consistent root development</li> <li>Lower risk and peace of mind for operations</li> </ul>

MI Flower LLC is a craft-scale cannabis cultivation facility dedicated to producing premium flower. Led by experienced cultivator Michael Klingler and his dedicated team, the company represents the convergence of traditional cultivation expertise with modern regulated industry standards.

## The Challenge:

Like many cannabis cultivators using coco coir substrates with Autopot systems, MI Flower faced ongoing challenges with root zone oxygenation. These systems, while efficient for automated watering, can create conditions that lead to:

- ✓ Root health deterioration over extended grow cycles
- ✓ Increased susceptibility to root diseases like Pythium and Fusarium
- ✓ Inconsistent plant performance across different growing rooms and cycles
- ✓ Need for frequent corrective interventions and additives
- ✓ Late-stage plant stress and fade during flower development

For a craft-focused operation like MI Flower, these issues threatened both yield consistency and the premium quality standards their customers expect.

## The Solution:

### Moleaer Nanobubble Technology

To address these challenges, MI Flower partnered with Moleaer to integrate nanobubble technology into their existing irrigation system. Moleaer's systems deliver high concentrations of dissolved oxygen directly to the root zone, creating an oxygen-rich environment that supports stronger, more resilient plants. The Moleaer team provided comprehensive pre-installation support, including:

- ✓ Proper system sizing for MI Flower's specific facility requirements
- ✓ Detailed installation guidance and technical specifications
- ✓ Maintenance protocols and training
- ✓ Ongoing post-installation support and optimization

## The Results:

### How Nanobubbles Enhanced Cannabis Yield

### Immediate Plant Health Improvements

Within 24 hours of installation MI Flower observed improvements:

- **Enhanced root development:** Accelerated root growth and improved root zone health
- **Vigorous canopy growth:** More aggressive vegetative development
- **Improved plant vitality:** Visibly healthier plants throughout all growth stages



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### Performance Gains Across Growth Phases

#### Vegetative Stage:

- Faster clone rooting and establishment
- More aggressive vegetative growth patterns
- Improved plant establishment that carries momentum into flowering

#### Flowering Stage:

- More efficient plant stacking and structure development
- Reduced late-stage fade and plant stress
- Improved finishing quality and consistency

### Quantifiable Business Benefits

#### Yield and Quality:

- Increased overall yields per harvest
- Significantly improved consistency across different rooms and growing cycles
- Higher average quality per harvest with more predictable outcomes

#### Operational Efficiency:

- Eliminated oxygenation concerns in coco/Autopot systems
- Reduced need for corrective products and interventions
- Proactive prevention of root disease issues
- Decreased crop loss risk

#### Financial Return:

- Clear ROI visible within the first few harvest cycles
- Reduced input costs through fewer required additives
- Lower risk profile through improved plant health consistency

*"It solved one of the toughest parts of running coco with Autopots — keeping roots happy long-term. With the Moleaer running, we don't worry about oxygenation issues anymore, which gives us more confidence every cycle. We saw happier plants in veg and flower literally the next day."*

— Michael, MI Flower LLC

### Lasting Impact:

#### Peace of Mind & Improved Cannabis Yield with Nanobubbles

For MI Flower LLC, Moleaer Nanobubble Technology represented more than a technology upgrade. It helped solved a fundamental cultivation challenge that limited their ability to deliver consistent, premium-quality cannabis. With immediate improvements in plant health, sustained performance gains, and clear financial returns, MI Flower gained both operational confidence and production efficiency.

This success story highlights how innovative cultivation technologies can help experienced growers overcome traditional limitations while maintaining their commitment to craft-quality production. By eliminating root zone oxygenation concerns, MI Flower can now focus on what they do best: perfecting the art and science of premium cannabis cultivation.



Learn how nanobubble technology creates optimal root zone conditions by downloading this eBook:

[www.moleaer.com/nanobubble-e-book](http://www.moleaer.com/nanobubble-e-book)

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