



Nano-Cav Series - Agriculture



Product Overview Nano-cav series

At Prasinos Tech, we specialize in designing advanced engineering solutions that harness the remarkable capabilities of controlled hydrodynamic cavitation.

We are proud to introduce the NanoCav, our ground-breaking multi-chamber hydrodynamic cavitation device, designed specifically for use in agriculture industry. This innovative solution enhances and accelerates gas infusion processes while significantly reducing energy consumption and gas usage costs. Leveraging the power of hydrodynamic cavitation, the NanoCav generates nano-sized bubbles, enabling superior gas transfer rates and extended retention time in liquids, driving efficiency and sustainability in wastewater treatment.

Integrating our NanoCav infusion device into your operations enhances the absorption of infused gases by the soil, promoting improved soil health and the development of complex biofilms, particularly when beneficial gases like oxygen are used. With its patented flow-through design and no moving parts, the NanoCav offers a scalable solution that is easy to install and can be seamlessly retrofitted into existing systems



Features

Unmatched Nanobubble Infusion

- Achieves infusion capabilities below 100 nanometers, with 10-nanometer bubbles generating over 1 trillion nanobubbles per milliliter

Great Performance

- Ensures 100% gas infusion in a single pass at 0.5% gas-to-water flow, allowing for the infusion of virtually any gas into any liquid.

Seamless Integration with Superior Durability

- Designed for seamless integration into existing systems, featuring a durable, long-lasting construction with no moving parts and a flow-through design that minimizes the risk of blockages

Safe for humans and the environment

- Designed to ensure safety for human health and minimal impact on the environment.

Customizable

- Comes in different models according to customer needs

Patented Technology

- State of Art "Make in India" Product serving global needs at affordable price

Benefits

- **Enhances efficiency** : Exceptional gas retention time in a fluid with higher dissolution rate
- **Improves Gas Absorption** : Increases gas absorption rate by organism with supersaturation of gas in a single pass
- **Improves Agricultural Efficiency** : Promotes soil health and enhances the disease resistance of crops
- **Enhances Agricultural Productivity** : Increased growth and yield while improving crop quality
- **Energy Savings** : Offers a significant reduction in overhead cost and in filtering water



**Prasinos Tech
Innovations**

A vision towards green future

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