



NANO CAV Series - Hydroponics



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 aquaculture 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.

Creating an optimal gas infusion system is essential for the success of any hydroponics installation. By utilizing nanobubble gas infusion, the delivery process becomes more efficient, allowing plant roots to easily access beneficial gases that enhance vitality. NanoCav's nanobubble gas infusion technology can instantly infuse over 8mg of oxygen per liter of water with more than 80% gas transfer efficiency, significantly reducing gas supply costs while simultaneously improving plant health and quality.



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 water quality** : ▪ Minimizes costs related to gas supply while simultaneously improving water quality
- **Enhances Plant Health** : Provides maximum concentration delivery potential, boosting disease resistance for more robust growth
- **Enhanced Crop Quality** : Improves color, flavor, and yield while accelerating the crop cycle



**Prasinos Tech
Innovations**

A vision towards green future

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