



NANO-CAV Series



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 the wastewater 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.

Nanobubble technology offers a transformative approach to wastewater treatment by significantly enhancing the oxidation and removal of pollutants. Through the introduction of nanoscale gas bubbles, this technology targets organic compounds with greater precision, accelerating the breakdown of industrial waste and microorganisms. This advanced solution enables wastewater treatment facilities to achieve superior purification standards while ensuring compliance with stringent environmental regulations.



Features

Unmatched Nanobubble Infusion

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

Great Performance

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

Seamless Integration with Superior Durability

- Designed for seamless integration into existing systems, featuring a durable, longlasting 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

- **Increases dissolved oxygen levels:** Efficient oxygenation, improving microbe activity for efficient organic matter degradation leading to significant reduction in organic pollutant removal
- **Improves water quality :** Ensures better aeration while accelerating the removal of pollutants and waste for faster contaminant management
- **Enhances cleaning efficiency :** Minimizes chemical use in treatment processes while improving the management of nitrogen and phosphorus.
- **Energy Savings :** Offers a significant reduction in energy requirements, cost savings, lower carbon footprints, and minimal noise levels
- **Promotes sustainability :** An eco-friendly technology which is both techno-energetically feasible and techno-economically viable



**Prasinostech
Innovations**

A vision towards green future

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