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submersible nanobubble generator l turbiti for irrigation & aeration

Discover how the Turbiti submersible nanobubble mixer revolutionizes water treatment, agriculture, and aquaculture with its reliable oxygen-saturation technology. Built from corrosion-resistant 316L stainless steel and marine-grade plastics, this unit is easy to install, enhances water quality, boosts productivity, and adapts to your needs. Learn more about its versatile applications and robust design—read the full details on the page.



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turbiti submersible nanobubble mixer: high-efficiency dissolved oxygen technology

- ✓ High-Efficiency Dissolved Oxygen (DO): Achieve superior gas dissolution and stable oxygen levels for demanding aquaculture and hydroponic environments.
- Chemical-Free Biofilm & Algae Control: Naturally suppress algae and strip biofilms in irrigation lines through nanobubble-induced oxidation—no harsh chemicals required.
- Specialized Horticulture Application: Proven growth-booster for high-value crops including tomatoes, cucumbers, peppers, and floriculture (Roses, Chrysanthemums).
- Industrial-Grade Pond & Lake Remediation: Accelerate the breakdown of organic "muck" and restore ecosystem balance in large-scale irrigation reservoirs.
- Compact Submersible Footprint: Designed for easy integration into existing tanks and ponds; eliminates the need for expensive land-based pump houses.
- Optimized for Shrimp & Fish Cultivation: Improves Feed Conversion Ratios (FCR) by maintaining optimal aerobic conditions in high-density aquaculture.
- Sustainable Clean-Tech Engineering: A low-maintenance, energy-efficient solution for sustainable water management and wastewater treatment.

turbiti submersible nanobubble generator: advanced aeration & oxygenation

The **Turbiti Submersible Nanobubble Mixer** is a high-efficiency nanobubble generator designed for deep-water applications where land space is limited. Unlike traditional surface aerators, the Turbiti operates entirely underwater, delivering billions of 100nm–200nm bubbles directly into the water column. This ensures maximum **Oxygen Transfer Efficiency (OTE)** and superior water quality for irrigation, aquaculture, and industrial wastewater.

engineered for high-performance dissolved oxugen (do)

The Turbiti technology outpaces competitors like the Moleaer Freya by focusing on a maintenance-free, submersible design that handles high-flow rates without the risk of clogging.

- **Superior Gas Dissolution:** Achieve supersaturated levels of dissolved oxygen (DO) to promote root health and aerobic activity.
- Submersible Design: Ideal for irrigation reservoirs, ponds, and tanks where external pump houses are not feasible.
- Low Operational Cost: The mixer head's lack of moving parts ensures

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longevity and minimal O&M expenses.

key industrial applications

- Horticulture & Agriculture (Irrigation Reservoirs) Increase crop yields by delivering oxygen-rich water directly to the root zone. Nanobubbles remain suspended for weeks, preventing anaerobic conditions and reducing the need for chemical fertilizers.
- Algae Control & Pond Restoration The Turbiti suppresses algae growth by increasing redox potential and enhancing the natural decomposition of organic matter (muck) without the use of harsh algaecides.
- Wastewater & Biofilm Management Nanobubbles physically scrub biofilms from pipes and tank walls while providing the high-rate aeration required for aerobic bacteria to thrive in treatment plants.

technical specifications

- Bubble Size: Average 110nm (Nanoparticle Tracking Analysis verified).
- Material: Robust, corrosion-resistant components for salt and freshwater use.
- Compatibility: Optimized for use with oxygen concentrators or ambient air.
- Installation: Plug-and-play submersible setup.

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submersible nanobubble mixer turbiti 737 with techno polymer pump 220v

	Description	Metric	Imperial
1	Model name	Submersible turbiti 737 with techno polymer pump 220V	Submersible turbiti 737 with techno polymer pump 220V
2	Model number	turbiti_737_submersible -316L_techno-polymer- pump_220V	turbiti_737_submersible-316 L_techno-polymer- pump_220V
	Liquid	Metric	Imperial
3	Strainer availability and size		
	Gas	Metric	Imperial
4	Gas quality		
5	Gas remark		
	Connections	Metric	Imperial
6	Water inlet	submersible pump inlet	submersible pump inlet
7	Water outlet	25 mm about 1"	25 mm about 1"
8	Gas inlet	10 mm gas hose or 3/8"	10 mm gas hose or 3/8"
	Remarks		
9	 ✓ Approximately @ 1 meter depth 60 kPa / 0. or 9 psi oxygen or air pressure required. Popump deeper to dissolve more gasses. ✓ Weight: weight bare unit: 12.4 kg ✓ dimensions in cm: (I x w x h): 74 x 25 x 41cd 		r pressure required. Put solve more gasses. unit: 12.4 kg

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