

Ozone-Based Nanobubble Generator

NanoE is an ozone and oxygen-based nanobubble generator designed for superior disinfection and oxygenation. With its built-in ozone generator and oxygen concentrator, NanoE delivers powerful water treatment while reducing chemical use, ensuring cleaner, healthier ecosystems. With its plug-and-play design and robust SS304 construction, NanoE ensures powerful disinfection, operational efficiency, and long-term reliability.



Applications

- ✓ Aquaculture & fisheries
- ✓ Lakes & pond rejuvenation
- ✓ Wastewater Treatment (STP/ETP)
- ✓ Agriculture & irrigation water
- ✓ Industrial Cleaning & Surface Sanitation
- ✓ Swimming Pools & Water Features
- ✓ Hydroponics & Controlled Environment Farming

***System size and capacity are customizable based on project requirements and scale of operation.*

About us

Nanokriti is an IIT Ropar-incubated deep-tech company founded in 2022. Our team of professors, researchers, and engineers brings over 8 years of expertise in nanobubble technology, supported by 30+ research publications.

We design and manufacture advanced nanobubble generators using our patented, cost-efficient technology, delivering high-performance solutions across aquaculture, agriculture, water treatment, and environmental restoration.

What are nanobubbles?

Nanobubbles are extremely small bubbles, less than 200 nanometers in diameter. Their extremely small size gives them unique properties such as high gas-liquid mass transfer, excellent stability, neutral buoyancy, surface charge, deep penetration, and strong carrying capacity. These characteristics make nanobubbles highly effective and applicable across diverse domains.

Distinct Features

- ✓ Ozone & Oxygen-based
- ✓ ~80 nm mean nanobubble diameter
- ✓ 75–80% Transfer Efficiency
- ✓ $>1 \times 10^8$ Nanobubbles / ml
- ✓ Plug-and-play installation
- ✓ Easy operation & low maintenance
- ✓ Proven results across multiple sectors

Benefits

- ✓ Powerful Disinfection Without Chemicals
- ✓ Effective Algae & Biofilm Control
- ✓ Deep Penetration & Long-Lasting Action
- ✓ Improves Water Clarity & Quality
- ✓ Enhances System Performance

NanoE N Series

Ozone-Based Nanobubble Generator

Technical Specification


	NanoE- N10	NanoE- N40	NanoE- N80
Liquid Flow Capacity			
Flow Rate (m ³ /hr)	15-16	27-30	65-67
Electrical Power			
Voltage (V)	415		
Phase	3+N		
HZ	50		
Power Consumption (kW)	3.5	3.7	5.8
Gas Supply			
Gas Source	Oxygen Concentrator		
Feed Gas Pressure (Bar)	2.5-4		
Gas Flowrate	0-5	0-10	0-10/20
Dimentions and Weights			
Suction (Inch)	2	3	4
Discharge (Inch)	2	3	4
Height, ft	4	4	4
Width, ft	1.5	1.5	1.5
Length, ft	4	4	4
Oxygen & Ozone System			
Capacity, (lpm)	5	10	10/20
Oxygen Concentration (%)	93	93	95
Operating Temperature (°C)	10 - 50	10 - 50	10 - 50
Humidity (%)	10 - 90	10 - 90	10 - 90
Ozone Capacity (g/hr)	10	20	40


**Specifications may change due to constant improvements


CONTACT US

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www.nanokriti.com

NanoE C Series

Ozone-Based Nanobubble Generator

Technical Specification


	NanoE- C10	NanoE- C40
Liquid Flow Capacity		
Flow Rate (m ³ /hr)	7-8	27-30
Electrical Power		
Voltage (V)	415	
Phase	3+N	
HZ	50	
Power Consumption (kW)	3.1	4.8
Gas Supply		
Gas Source	Oxygen Concentrator	
Gas Flowrate	0-2.5	0-5
Dimentions and Weights		
Suction (Inch)	2	3
Discharge (Inch)	2	3
Height, ft	4	4
Width, ft	1.5	1.5
Length, ft	4	4
Oxygen & Ozone System		
Capacity, (lpm)	5	5
Oxygen Concentration (%)	93	93
Operating Temperature (°C)	10 - 50	10 - 50
Humidity (%)	10 - 90	10 - 90
Ozone Capacity (g/hr)*	10	20


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