

*NanoAqua is an oxygen-based nanobubble generator with an in-built oxygen concentrator. available in different models designed to suit various capacities, operational scales, and user needs. With its plug-and-play design and robust SS304 construction, NanoAqua ensures durability, efficiency, and ease of use.*



### Benefits

- ✓ Increases dissolved oxygen levels (DO)
- ✓ Long-Lasting & Stable Oxygenation
- ✓ Enhances Water Quality
- ✓ Suppresses and prevents algae, pathogens, and biofilm formation
- ✓ Enhances root health, plant vigour, and Increases nutrient absorption
- ✓ Improves Growth & Feed Conversion Ratio (FCR)
- ✓ Energy Efficient, Compact, Portable & Easy to Use

### 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.

### Applications

- ✓ Aquaculture & fisheries
- ✓ Lakes & pond rejuvenation
- ✓ Wastewater Treatment
- ✓ Agriculture & irrigation water
- ✓ Food & beverage processing
- ✓ Industrial processes

### Distinct Features

- ✓ Built-in Oxygen concentrator
- ✓ ~80 nm mean nanobubble diameter
- ✓ 75–80% Oxygen Transfer Efficiency (OTE)
- ✓  $>1 \times 10^8$  Nanobubbles / ml
- ✓ Plug-and-play installation
- ✓ Easy operation & low maintenance
- ✓ SS304 robust construction
- ✓ Proven results across multiple sectors

# NanoAqua N-Series

Oxygen-Based Nanobubble Generator

## Technical Specification

	NanoAqua- N10	NanoAqua- N40	NanoAqua- N80
<b>Liquid Flow Capacity</b>			
Flow Rate (m <sup>3</sup> /hr)	15-16	27-30	65-67
<b>Electrical Power</b>			
Voltage (V)	415		
Phase	3+N		
HZ	50		
Power Consumption (kW)	3.2	3.2	5
<b>Gas Supply</b>			
Gas Source	Oxygen Concentrator		
Feed Gas Pressure (Bar)	2.5-4		
Gas Flowrate	0-5	0-10	0-10/20
<b>Dimentions and Weights</b>			
Suction (Inch)	2	3	4
Discharge (Inch)	2	3	4
Height, ft	3	4	4
Width, ft	1.5	1.5	1.5
Length, ft	3	4	4
<b>Oxygen Concentrator</b>			
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


\*\*Specifications may change due to constant improvements


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


## CONTACT US

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www.nanokriti.com

# NanoAqua C-Series

Oxygen-Based Nanobubble Generator

## Technical Specification


	NanoAqua- C10	NanoAqua- C40
<b>Liquid Flow Capacity</b>		
Flow Rate (m <sup>3</sup> /hr)	7-8	27-30
<b>Electrical Power</b>		
Voltage (V)	415	
Phase	3+N	
HZ	50	
Power Consumption (kW)	2.6	4.3
<b>Gas Supply</b>		
Gas Source	Oxygen Concentrator	
Gas Flowrate	0-2.5	0-5
<b>Dimentions and Weights</b>		
Suction (Inch)	2	3
Discharge (Inch)	2	3
Height, ft	3	4
Width, ft	1.5	1.5
Length, ft	3	4
<b>Oxygen Concentrator</b>		
Capacity, (LPM)	5	10
Oxygen Concentration (%)	93	93
Operating Temperature (°C)	10 - 50	
Humidity (%)	10 - 90	


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