

## Air-Based Nanobubble Generator

*NanoCloud is an air-based nanobubble generator designed to infuse atmospheric air into water as stable nanobubbles. It enhances dissolved oxygen levels naturally, promoting healthier water ecosystems while reducing dependence on external gas sources. With its plug-and-play design and robust SS304 construction, NanoCloud ensures seamless operation, energy efficiency, and long-lasting performance.*



### Applications

- ✓ Wastewater Treatment (STP/ETP)
- ✓ Lakes & pond rejuvenation
- ✓ Hydroponics, Aeroponics & Irrigation Water
- ✓ Agriculture & Soil Oxygenation
- ✓ Aquaculture & Fisheries
- ✓ Ornamental Ponds & Water Features

### 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

- ✓ Air- Based nanobubble generator
- ✓ ~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

- ✓ Increases Dissolved Oxygen (DO) Efficiently
- ✓ Enhances Water Quality Naturally
- ✓ Reduces Sludge, Odor & Anoxic Zones
- ✓ Prevents Biofilm & Pipe Clogging
- ✓ Energy Efficient & Cost-Effective
- ✓ Easy operation & low maintenance
- ✓ Versatile Across Multiple Sectors

# NanoCloud N Series

Air-Based Nanobubble Generator

## Technical Specification

	NanoCloud 10	NanoCloud 40	NanoCloud 80
<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)	2.7	2.7	4.5
<b>Gas Supply</b>			
Gas Source	Air Compressor		
Feed Gas Pressure (Bar)	2.5-4		
Gas Flowrate	0-5	0-10	0-10/20
<b>Dimensions 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

\*\*Specifications may change due to constant improvements

## CONTACT US

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# NanoCloud C Series

Air-Based Nanobubble Generator

## Technical Specification

	NanoCloud- C10	NanoCloud- 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)	2.1	3.9
Gas Flowrate	0-2.5	0-5
<b>Dimensions 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

\*\*Specifications may change due to constant improvements

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