









APPLICATIONS

- · Deep Water Culture
- NFT
- Drip Irrigation
- Water Tank Oxygenation
- · Reservoir Oxygenation
- Algae Control
- Biofilm Control*

The patented Moleaer Neo™ Nanobubble Generator is a highly efficient gas-to-liquid injection technology that converts bulk oxygen into nanobubbles and supersaturates water with high levels of dissolved oxygen (DO). Negatively charged, neutrally buoyant nanobubbles remain suspended in water for long periods of time, acting like an oxygen battery that delivers oxygen to the entire body of water. As oxygen is consumed, the nanobubbles continue to diffuse more oxygen into solution to maintain optimal levels of DO. The nanobubbles produce a natural oxidant capable of reducing biofilm growth* and suppressing harmful pathogens, even in warm water. Moleaer's Neo is an economical and highly effective tool that improves water quality, suppresses root disease and promotes the growth of healthy, resilient plants.

The Neo comes with an energy efficient industrial-grade Gould pump with an open impeller and a PLC controller that enables automation and control of the Neo when not used in continuous operation. The system is quiet and corrosion-resistant with stainless steel components. The Neo comes standard with an integrated low maintenance, optical DO sensor for real time monitoring. Available in 150 and 250 GPM flow rates, the Neo is designed for durable operation and easy installation into existing irrigation or water treatment system.

Features & Benefits:

- ~100 nm-sized bubbles
- · Improved water quality
- · Oxygenation of any tank and any depth of water
- · Enhanced nutrient absorption in plants
- · Promotion of beneficial bacteria, suppression of pathogens
- · Easy integration with fertigation systems and climate control systems
- · Auto gas shut off if loss of prime feed
- · Low feed gas pressure sensor and alarm
- · Integrated real-time DO monitoring
- · Corrosion resistant stainless-steel frame and components

*Organic, bio-based nutrients may impact biofilm accumulation rates.

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NEO US Series

MODELS	NEO 50 Standard	Neo 50 Standard	Neo 150 Standard	Neo 250 Standard
LIQUID FLOW CAPACITY (WATER)				
Flow Rate, GPM	50	50	150	250
Maximum Liquid Pressure, PSIG		2	2	
OPERATING PARAMETERS				
Temperature Tolerance, °F	40 - 140			
Solids, inches	< 3/8			
GAS FEED				
Maximum Gas Pressure, PSIG	120			
Indicated Gas Flow Range, L/min	0 - 2.5	0 - 2.5	0 - 10	0 - 15
ELECTRICAL POWER				
Voltage	230	460	460	460
Phase	1	3	3	3
Hz	60			
Pump Motor Power (hp)	0.5	2	3	5
Total Amp Draw	9.8	4.7	6.9	8.4
PUMP				
Pump Type	TEFC			
Wetted Parts Materials	Buna-N/316 SS			
CONTROL				
Power (Light)	On/Off DP			
Motor Starter	400V IN to 24V DC OUT w/OL protection			
Start Switch	On/Off (24V DC)			
Dissolved Oxygen (DO) Sensor	Optical, 0-40 ppm (+/- 1.5 ppm) 0-5mV			
CONNECTIONS				
Customer pipe connection, in*	2	2	3	3
Inlet (Flanged), in	2.5	2.5	2.5	3
Discharge (Flanged), in	1.5	1.5	2	3
Gas Fitting for External O ₂	1/4" MNPT			
DIMENSIONS AND WEIGHT				
Height, inches	42			
Width, inches	27			
Length, inches		4	.0	
Weight, lb	210	210	227	282

Note 1: When using oxygen, Moleaer recommends CGA inlet 540, outlet 9/16" - 18RH pressure regulator with delivery range of 5-150 PSI (0.34-10.3 bar).

Note 2: Indicated gas flow range represented under pressure and not represented under standard conditions



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