

## NEO<sup>™</sup> N

### NANOBUBBLE GENERATOR WITH ON-BOARD OXYGEN



## APPLICATIONS

### Oxygenation:

- Hydroponics
- Drip Irrigation
- Drain Water
- Reservoirs
- Day Tanks
- Aquaculture Systems

### Water Treatment:

- Drain Water Treatment
- Reservoirs
- Iron Oxidation
- Algae Control

Moleaer's patented Neo<sup>™</sup> N 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). Without the use of chemicals, the Neo N is a highly effective tool to improve water quality, enhance water infiltration in soils and substrates, suppress water-borne pathogens, reduce biofilm and algae and promote healthy, resilient plants.

The Neo N comes with a PLC controller that enables automation and control of the system when not used in continuous operation. The Neo N is quiet and corrosion-resistant with stainless steel components. A robust and durable design, the Neo N is easy to install into existing irrigation or water treatment systems and comes standard with onboard oxygen generation.

## Benefits:

- Significantly increase DO levels
- Improve root health & plant vigor
- Enhance nutrient absorption in plants
- Suppress and prevent algae, pathogens and biofilm\*
- Improve infiltration and dripper uniformity
- Improve irrigation system hygiene
- Complement IPM strategies
- Reduce chemical usage

## Features:

- Easy to integrate with fertigation systems and climate control systems
- Programmable automation controls
- Operating sensors and alarms
- Integrated real-time DO monitoring
- Corrosion-resistant stainless-steel frame and components
- Onboard oxygen generation

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

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# NEO N 60 HZ with Oxygen Generator

MODELS	S2 O <sub>2</sub>		S3 O <sub>2</sub>		S5 O <sub>2</sub>
<b>LIQUID FLOW CAPACITY</b>					
Flow Rate, (gpm) nominal	40 - 60		75 - 110		180 - 275
Pump TDH, (ft) nominal	50				
<b>ENVIRONMENTAL PARAMETERS</b>					
Ambient Temperature Range, (°F)	40 - 140				
Max Diameter Solids, (in)	< 1/8"				
<b>GAS SUPPLY</b>					
Gas Source	Onboard Oxygen Generator and Recompressor				
Maximum Gas Feed Pressure, (psig) <sup>1</sup>	100				
Gas Flow Range, SCFH (CFH @ 40 psig)	0 - 12.7 (0 - 6.6)		0 - 16.3 (0 - 8.5)		
Gas Flow Control	Needle Valve on Oxygen Generator				
<b>ELECTRICAL POWER</b>					
Voltage (V), Phase (F), Frequency (Hz)	230, 1, 60	460, 3, 60	230, 1, 60	460, 3, 60	460, 3, 60
Pump Motor Power (hp)	0.75	0.75	3	3	5
Total Amp Draw (A), nominal	9.7	5.6	16.3	8.3	10.0
<b>PUMP</b>					
Pump Type	Flooded Suction or Self-Priming				
Motor Type	TEFC				
Wetted Parts Materials	Viton/316 SS, PVC, PFA, PTFE, PVDF, Brass, Buna-N, Polypropylene, Polyester, EPDM, Neoprene, Technopolymer				
<b>OXYGEN GENERATOR</b>					
Models	Airsep Topaz		Airsep Topaz Ultra		
<b>PLC CONTROL MODES</b>					
Manual	On/Off Control for Continuous Operation				
Timer	On/Off Timers for Intermittent Operation				
Dissolved Oxygen (DO) Control	Intermittent Operation to Maintain DO Level - 0 - 40 ppm range				
<b>CUSTOMER CONNECTIONS<sup>2</sup></b>					
Recommended Customer Pipe Size (in)	2"		3"		
Inlet Connection - Flooded Suction (Goulds)	N/A	2.5" ANSI Flange	N/A	2.5" ANSI Flange	3" ANSI Flange
Inlet Connection - Self-Priming (DAB, Pentair & Pacer)	2" NPT				2.5" F - SCT (3" M - SCT)
Inlet Connection - Self-Priming, (Hayward)	N/A				2.5" NPT
Discharge Connection	2" Open Pipe		3" Open Pipe		
<b>MATERIAL, DIMENSIONS AND WEIGHT</b>					
Frame Material	SS 300 Series, Passivated				
Envelope Dimensions, (in)	42" L x 26" W x 43.6" H				
Weight, (lbs)	310		320		330

**Note 1: Maximum Gas Pressure does not represent gas pressure indicated on the machine during normal operation.**

**Note 2: Flange adapter kits for inlet and discharge connections come standard for all units.**



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