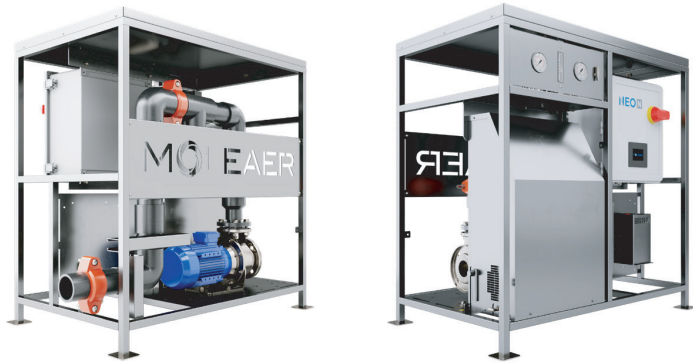




**SOUTHERN
IRRIGATION**

NANOBUBBLE GENERATOR

MOLEAER
ADVANCING NANOBUBBLE TECHNOLOGY



APPLICATIONS

Oxygenation:

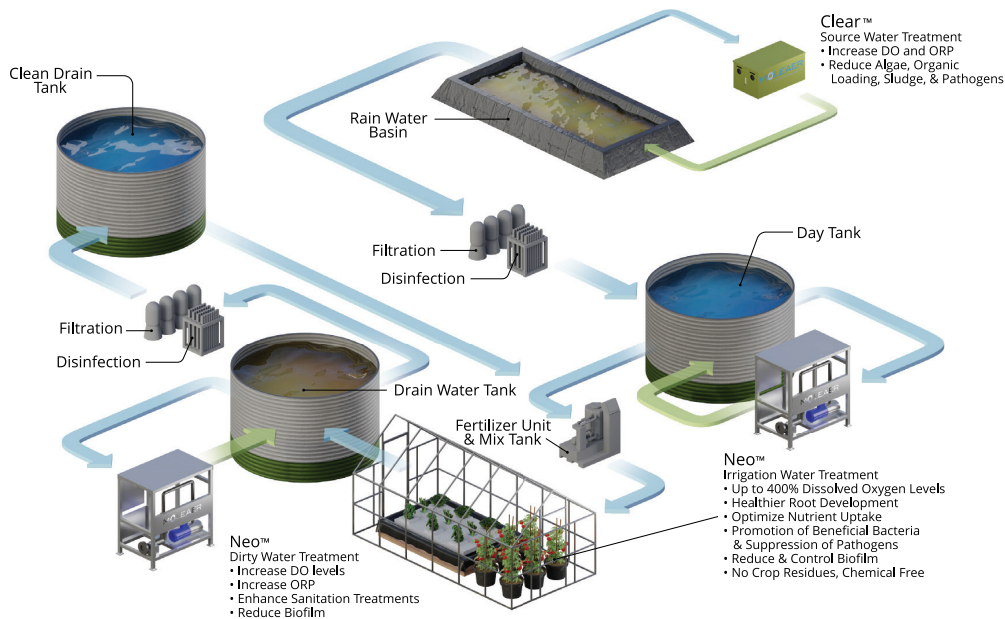
- Hydroponics
- Drip Irrigation
- Drain Water
- Reservoirs
- Day Tanks
- Aquaculture Systems

Water Treatment:

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

NEON™

IRRIGATION WATER CYCLE IN GREENHOUSES



Proven Horticulture Benefits

Moleaer nanobubbles efficiently enhance water in multiple stages of the growth cycle. Nanobubble enriched water has been proven to improve water quality and soil, root, and plant health while lowering treatment and oxygen costs. Many growers have also experienced increases in yield.

Improved Water Quality:

- Algae reduction in source water
- Reduced Pythium levels
- Metal oxidation
- Reduced reliance on chemical treatments
- Reduction of biofilm in irrigation pipes
- Increased dissolved oxygen in water with nearly perfect gas transfer to reduce oxygen costs

Root, Soil & Plant Health

- Healthier root development
- Increased nutrient uptake
- Improved water retention in soil
- Improved vegetative growth
- Larger fruit size and yield



[More Information](#)

NEO N 60 HZ WITH OXYGEN GENERATOR

MODELS	S2 O ₂		S3 O ₂		S5 O ₂
LIQUID FLOW CAPACITY					
Flow Rate, (gpm) nominal	40 - 60		75 - 110		180 - 275
Pump TDH, (ft) nominal	50				
ENVIRONMENTAL PARAMETERS					
Ambient Temperature Range, (°F)	40 - 140				
Max Diameter Solids, (in)	< 1/8"				
GAS SUPPLY					
Gas Source	Onboard Oxygen Generator and Recompressor				
Maximum Gas Feed Pressure, (psig) ¹	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				
ELECTRICAL POWER					
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
PUMP					
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				
OXYGEN GENERATOR					
Models	Airsep Topaz		Airsep Topaz Ultra		
PLC CONTROL MODES					
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				
CUSTOMER CONNECTIONS ²					
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		
MATERIAL, DIMENSIONS AND WEIGHT					
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.