MOLEAER
ADVANCING NANOBUBBLE TECHNOLOGY

CLEAR™
NANOBUBBLE GENERATOR

APPLICATIONS

- Pond & Lake Treatment
- Horticulture & Irrigation Reservoir Treatment
- Algae Control
- Water Quality Improvement
- Odor Control
- Iron & Manganese Control
- Midge Fly Control
- Hypolimnetic Aeration
- Sediment Decomposition
- Fish and Ecosystem Health
- Side Stream Oxygenation
- Nutrient Reduction

Moleaer's patented Clear™ nanobubble generator is a chemical-free solution for improving water quality and restoring the natural health of lakes and ponds. The Clear is a hyper-efficient gas-injection technology that uses air or oxygen enriched air to produce a constant, concentrated stream of nanobubbles that provide a continuous source of treatment. Once injected, the nanobubbles distribute throughout the water column and the waterbody effectively delivering oxygen and a mild, oxidative impact even at the sediment layer. Nanobubbles are a sustainable option for increasing dissolved oxygen concentrations, improving water clarity, and overall waterbody health even in shallow or hard to treatment water bodies.

The Clear is available in 50 and 150 GPM (11 or 34 m^3/hr) flow rates that use integrated compressors to supply atmospheric air or optional oxygen enriched-air for more demanding treatment applications.

The Clear comes standard with remote equipment monitoring capability that enables each system to be monitored by both the user and Moleaer's global team of field service technicians to ensure optimum performance. Furthermore, each system offers an optional dissolved oxygen monitoring solution that can be tracked in real time, remotely. Additional water quality monitoring solutions are also available.

Features & Benefits:

- Highest Oxygen Transfer Efficiency
- Global Remote Monitoring Capability
- Quiet, <65 dB
- 120 nm-sized Bubbles
- >1 Billion Nanobubbles / mL
- Easy to Install & Maintain
- Small Footprint & Lightweight
- Shore Mounted

Options:

- Remote Water Quality Monitoring
- Integrated Enriched-Air Generation (Doubles Oxygen Supply)
- Integrated Ozone Generation

Rev. 112020

CLEAR US Series

MODELS	Clear 50	Clear 50 (230V)	Clear 150	Clear 150 Enriched
LIQUID FLOW CAPACITY (WATER)				
Flow Rate, GPM	50	50	150	150
Maximum Liquid Pressure, PSIG	22			
OPERATING PARAMETERS				
Temperature Tolerance, °F	40 - 140			
Solids, inches	< 3/8			
GAS FEED				
Maximum Gas Pressure, PSIG	120			
Indicated Gas Flow Range, CFH	0 - 20			
ELECTRICAL POWER				
Voltage	115	230	230	230
Phase	1			
Hz	60			
Pump Motor Power (HP)	0.750	0.750	3	3
Total Compressor Power (HP)	0.125	0.125	0.125	0.375
Max Amp Draw	13.6	7.6	16.6	18
PUMP				
Pump Type	TEFC			
Wetted Parts Materials	Polypropylene/316 SS/Buna			
Motor Starter Switch	Start Button (Latching)			
UNIT CONNECTIONS				
Customer Pipe Connection	2	2	3	3
Unit Inlet (Slip and Groove), inches	2	2	3	3
Unit Discharge (Slip and Groove), inches	2	2	3	3
DIMENSIONS AND WEIGHT				
Height, inches	32			
Width, inches	27.5			
Length, inches	39			
Weight, lb	250	250	250	250
OZONE (OPTIONAL FEATURE OFFERED ONLY ON THE 150 GPM ENRICHED OPTION ONLY)				
Additional Amp Draw	NA	NA	NA	0.4
OPTIONAL FEATURES				
Remote Monitoring	Global GPS and 4G/3G service			
Dissolved Oxygen Sensor	Optical, 0 - 40 ppm (+/- 1.5 ppm), 30 Second Response Time			
OPTIONAL UPGRADE FEATURES				
Remote Monitoring	Equipment performance sensors included standard, option to upgrade to access real time data and receive notifications			
Dissolved Oxygen	Option to include Dissolved Oxygen (DO) sensor in unit and monitor data 24/7			
External Water Monitoring	Option to include additional water quality sensor to monitor Temperature, Conductivity, pH, ORP, DO, Chlorophyll-A			

Remote Monitoring: All systems are remote-monitoring ready. Subscriptions and fees apply to activate. Remote monitoring includes on-board GPS/3G sim card with worldwide connectivity.

Notes: EPA Establishment Number 94231-CA-1 Intake screen is necessary to prevent clogging.

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