

## 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 11 or 34 m<sup>3</sup>/hr (50 and 150 GPM) 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

The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. Moleaer assumes no liability for results obtained or damages incurred through the application of the information contained herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice.

Copyright © 2021 Moleaer. All trademarks stated herein are the property of their respective company. All rights reserved. This document is confidential and contains proprietary information of Moleaer Inc. Neither this document nor any of the information contained herein may be reproduced, redistributed or disclosed under any circumstances without the express written permission of Moleaer Inc.

Rev. 030421

# CLEAR EU Series

MODELS	Clear 50	Clear 150	Clear 150 Enriched
<b>LIQUID FLOW CAPACITY (WATER)</b>			
Flow Rate, m <sup>3</sup> /hr	11	34	34
Maximum Liquid Pressure, Bar	1.5		
<b>OPERATING PARAMETERS</b>			
Temperature Tolerance, °C	5 - 60		
Solids, mm	<9.5		
<b>GAS FEED</b>			
Maximum Gas Pressure, Bar	8.5		
Indicated Gas Flow Range, LPM	0 - 10		
<b>ELECTRICAL POWER</b>			
Voltage	230	230	230
Phase	1	1	1
Hz	50	50	50
Pump Motor Power (kW)	1	3.20	3.20
Total Compressor Power (kW)	0.09	0.09	0.28
Max Amp Draw	9.7	19.2	21
<b>PUMP</b>			
Pump Type	TEFC		
Wetted Parts Materials	Polypropylene/316 SS/Buna		
Motor Starter Switch	Start Button (Latching)		
<b>UNIT CONNECTIONS</b>			
Customer Pipe Connection	63	90	90
Unit Inlet (Slip and Groove), mm	63	90	90
Unit Discharge (Slip and Groove), mm	63	90	90
<b>DIMENSIONS AND WEIGHT</b>			
Height, cm	81		
Width, cm	70		
Length, cm	100		
Weight, kg	158	158	165
<b>OZONE (OPTIONAL FEATURE OFFERED ONLY ON THE 150 GPM ENRICHED OPTION ONLY)</b>			
Additional Amp Draw	NA	NA	0.4
<b>OPTIONAL FEATURES</b>			
Remote Monitoring	Global GPS and 4G/3G service		
Dissolved Oxygen Sensor	Optical, 0 - 40 ppm (+/- 1.5 ppm), 30 Second Response Time		
<b>OPTIONAL UPGRADE FEATURES</b>			
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.

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

The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. Moleaer assumes no liability for results obtained or damages incurred through the application of the information contained herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice.

Copyright © 2021 Moleaer. All trademarks stated herein are the property of their respective company. All rights reserved. This document is confidential and contains proprietary information of Moleaer Inc. Neither this document nor any of the information contained herein may be reproduced, redistributed or disclosed under any circumstances without the express written permission of Moleaer Inc.

Rev. 030421