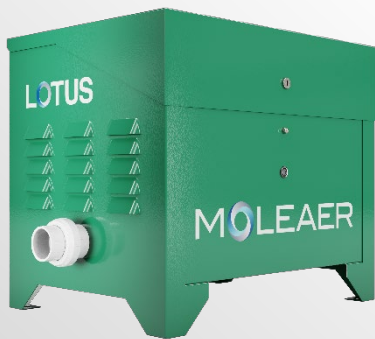


LOTUS™

NANOBUBBLE GENERATOR SERIES



APPLICATIONS

Designed for controlled environment growing facilities:

- Small Greenhouses
- Hydroponics
- Deep Water Culture (DWC)
- Aquaponics
- Nutrient Film Technique (NFT)

Improve Crop Health, Resilience & Yields

Optimize irrigation water to promote improved plant growth and reduced inputs with Moleaer's Lotus™ patented nanobubble generator, a highly efficient gas-injection technology that converts bulk oxygen into nanobubbles and supersaturates irrigation water with high levels of dissolved oxygen (DO).

The Lotus platform is designed for micro-growers, hydroponic and aquaponic facilities growing leafy greens, vegetables and flowers, cannabis growers and others looking to enhance irrigation water quality and plant health in operations treating less than 1000 gallons of water per day or water bodies with volume less than 22,000 gallons.

Benefits:

- Boost plant vigor and performance from early growth to flushing
- Promote beneficial bacteria and increase nutrient uptake efficiency
- Reduce root pathogens
- Reduce biofilm and improve irrigation system hygiene
- Reduce chemical and pesticide applications
- Reduce water use through increased water uptake efficiency
- Improve plant resilience to environmental stress

Features:

- Assembled in the USA and Spain
- Corrosion-resistant
- Self-priming, energy-efficient pump
- Easy installation & maintenance
- Robust design with only two moving parts



Lotus with Conversion Kit and oxygen generator. Sold separately.

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 © 2024 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. A.1

LOTUS - 60 HZ

TECHNICAL SPECIFICATIONS	Lotus	Lotus PLUS
LIQUID FLOW CAPACITY		
Flow Rate (gpm) nominal at 50ft TDH	10 – 22	35 – 50
Maximum Liquid Pressure (psig) ¹	20	
ENVIRONMENTAL PARAMETERS		
Temperature Tolerance, (°F)	41 – 140	
Max Diameter Solids, (in)	1/8	
GAS SUPPLY		
Gas Source	Off-board O ₂ Gas or Optional O ₂ Generator	
Gas Feed Pressure, (psig)	Max 50; must be greater than water pressure	
Gas Flow Range, (SCFH; SLPM) ²	0 – 3.2; 0 – 1.5	0 – 10.6; 0 – 5.0
Max Applied Oxygen (lb/hr)	0.26	0.88
OPTIONAL Oxygen Generator (SCFH; SLPM) ³	Match to Gas Flow Range; See Manual	
Gas Flow Control	Needle Valve on Rotameter	
ELECTRICAL POWER ⁴		
Voltage (V), Phase (F), Frequency (Hz)	120, 1, 60	
Total Amp Draw (A), nominal	11.2; (17.2 with O ₂ Generator)	
Total Power Consumption (kW)	1.0; (1.6 with O ₂ Generator)	
PUMP		
Pump Type	IPX5/TEFC, Self-Priming	
Wetted Parts Materials	Polypropylene/Buna	
Motor Starter Switch	Rocker Switch (Latching)	
CUSTOMER CONNECTIONS		
Inlet Union Fitting, (in)	1-1/2 Female Slip Fitting	
Outlet Union Fitting, (in)	1-1/2 Female Slip Fitting	
MATERIALS, DIMENSIONS AND WEIGHT		
Piping	PVC	
Enclosure Material	Powder Coated Steel (Outdoor Rated)	
Envelope Dimensions, (in)	27 L x 17 W x 19 H	
Weight, (lbs)	55	

Standard Package Includes: Lotus nanobubble generator, oxygen regulator, gas hose (fittings built-in), unions, clamps, and CIP tool.

¹ Regulate liquid pressure to 20psi or less when using O₂ Generator. Gas pressure must be greater than water pressure for nanobubble generation.

² S (standard) is gas measured at 1 atm and 70°F. Volumetric flow rate can change based on environmental factors and system maintenance

³ Oxygen Generator sold separately. Lotus 'Conversion Kit' Accessory required for electrical switching. The associated oxygen generator must be covered and not be exposed to moisture.

⁴ Typical household circuit breaker is 15A. Commercial and Appliance circuit breakers may be 20A. Size accordingly.



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 © 2024 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. A.1