

NANO BOOST™ Nanobubble Generator



TYPICAL APPLICATIONS

- Hydroponics
- Ornamental Ponds
- Cooling Towers
- Ozone
- Membrane Cleaning

FEATURES

- Plug-and-Play
- Self-Cleaning

The patent-pending Moleaer™ nanoBoost is the most effective technology to unlock the full potential of oxygen for water treatment and plant growth. The nanoBoost produces trillions of nanobubbles, ~100nm in size, transferring gas with greater than 90% efficiency. Moleaer's nanobubbles remain in suspension after saturation, creating a reserve of available oxygen in the water. The combination of the high transfer rate and nanobubble stability enables maximum oxygen utilization for water treatment and crop production.

Available in a variety of configurations, the nanoBoost was designed for durable operation, easy installation and straightforward control. The nanoBoost can be configured with or without an integrated pump.

FEATURES & BENEFITS

- > 90% standard oxygen transfer efficiency ("SOTE")
- ~ 100nm in sizes
- Smallest size bubbles creating 200x the interfacial surface area compared to micro bubbles
- Highest concentration of bubbles per cm³ (>300M bubbles/ml)
- Nanobubbles stay suspended in water after solution reaches saturation
- Increases water's capacity to hold a given gas
- Low-turbulent gas diffusion
- Reduces the density of water, therefore reducing friction

***Patent-pending technology**

www.moleaer.com

SPECIFICATIONS	25 nanoBoost	50 nanoBoost
FLOW SPECIFICATIONS		
Flow Rate, gpm (m ³ /h)	25 (6)	50 (11)
Minimum Discharge Pressure	13 PSIG	13 PSIG
Maximum Discharge Pressure	22 PSIG	22 PSIG
OPERATING PARAMETERS		
Temperature - PVC Block	41 - 140° F (5 - 60° C)	
Temperature - SS Block	36 - 210° F (0 - 99° C)	
Solids	Up to 3/8" / 10mm strainer recommended	
Standard Oxygen Transfer Efficiency (SOTE)	> 90%	
AIR FEED SPECIFICATIONS		
Air Flow Rate	0-5 CFH	0-8 CFH
Minimum Pressure	120 PSI	
Air Quality ¹	ISO 8573 - 1:2010 Class 1.4.1	
PUMP & ELECTRICAL²		
Pump Model	Goulds, NPE, TEFC	
Wetted Parts ²	Buna/316 SS/Viton	
Pump Voltage	115/230 V	115/230 V
Pump Motor HP (KW)	0.75 (0.57)	2 (1.48)
Starter	Onboard NEMA 4X	
CONNECTIONS³		
Inlet ³ : Inch	1.25" FNPT	1.25" FNPT
Discharge ³ : Inch	1" FNPT	1.5" FNPT
Air	¼" Industrial	¼" Industrial
DIMENSIONS & WEIGHT		
Height, Inches (cm)	29 (73.6)	29 (73.6)
Width, Inches (cm)	21 (53.3)	21 (53.3)
Depth, Inches (cm)	14 (35.5)	14 (35.5)
Shipping Weight Estimate, lbs (kg) ⁴	80 (36)	80 (36)

- Note 1 Oil, water and particulate must be removed from all gases before entering the generator
- Note 2 Goulds NPE Pump, Specified wetted parts optional
- Note 3 Connections can be flanged or sanitary upon request
- Note 4 Standard PVC Body, with standard Centrifugal pump