

XTB Nanobubble Generator



TYPICAL APPLICATIONS

- Wastewater Treatment
- H₂S / Odor Control
- Emergency Aeration
- Produced Water Oxidation
- Solids Separation
- Oil / Water Separation
- Iron Oxidation
- CO₂ Injection / pH Control

FEATURES

- No Moving Parts
- Plug-and-Play
- Compatible with multiple gas types

The patented Moleaer XTB Nanobubble Generator is the most efficient gas infusion technology available to transfer virtually any gas into any liquid. The XTB produces billions of nanobubbles, ~100nm in size, that provide near perfect gas transfer efficiency. Bubbles of this size exhibit extraordinary properties including neutral buoyancy, a strong surface charge, and strong oxidation potential. These properties enable the XTB to significantly improve the performance of a water treatment process, increase treatment capacity and decrease operational costs.

Available with flooded suction or positive suction pumps, the Moleaer XTB Nanobubble Generator can be integrated into almost any type of indoor or outdoor installation. Industrial grade components and simple controls deliver durable operation, consistent performance and low maintenance. With the flip of a switch, the Moleaer XTB Nanobubble generator will provide immediate benefits to a treatment process.

FEATURES & BENEFITS

- 85% Standard Oxygen Transfer Efficiency (SOTE)
- <100 nm-sized bubbles produced in excess of 1 billion nanobubbles / mL
- Aeration of any tank and any depth of water
- Compatible with a wide range of treatment processes
- Rapid installation and minimal distribution to existing processes
- Indoor or outdoor use
- Auto gas shut off if loss of prime feed
- Corrosion resistant stainless-steel frame and components
- Compatible with multiple gas sources

Models	25 XTB NPE	25 XTB NPO	50 XTB NPE	50 XTB NPO	100 XTB	200 XTB
Liquid Flow Capacity						
Flow Rate, m ³ /hr	6	6	11	11	23	45
Maximum Liquid Pressure, Bar				1.5		
Operating Parameters						
Temperature Tolerance, °C				5-60		
Solids, mm				<9.5		
Gas Feed						
Maximum Gas Pressure, Bar				8.5		
Indicated Gas Flow Range, L/min.	0-1.2	0-1.2	0-2.4	0-2.4	0-9.4	0-14
Electrical Power						
Voltage	115	115	115	115	460	460
Phase	1	1	1	1	3	3
Hz	60	60	60	60	60	60
Total kW	0.6	1.12	1.48	1.48	2.2	3.73
Total Amp Draw	5.2	9.7	12.9	12.9	4.8	8.1
Pump						
Pump Type	NPE, TEFC	NPO, TEFC	NPE, TEFC	NPO, TEFC	NPO, TEFC	NPO, TEFC
Wetted Parts Materials	Buna/Stainless Steel/Viton					
Starter	Onboard NEMA 4X					
Connections						
Customer pipe connection, mm*	38.1	38.1	50.8	50.8	76.2	76.2
Inlet (FNPT), mm	31.8	31.8	50.8	50.8	50.8	76.2
Discharge (FNPT), mm	25.4	25.4	38.1	38.1	50.8	76.2
Air Fitting ³ , mm	6.35 Industrial Air					
Dimensions and Weight						
Height, cm	48	48	48	48	69	69
Width, cm	71	71	71	71	116	116
Length, cm	51	51	51	51	60	60
Weight, kg	38.6	38.6	40.9	40.9	81.6	100

*Must use a reducer to adapt pipe connection to the unit inlet/discharge. Only use the suggested pipe connection

Note 1: Standard pump, optional pumps are available including submersible, trash, and specialty

Note 2: Connections can be flanged or sanitary upon request

Note 3: CGA 022 fitting 1/4" MNPT (BSPTF) available for use with oxygen tanks

Note 4: Standard PVC Body with standard centrifugal pump