

XTB[™]

NANOBUBBLE GENERATOR



APPLICATIONS

- Wastewater Treatment
- H₂S / Odor Control
- DAF Optimization
- Produced Water Oxidation
- Solids Separation
- Oil / Water Separation
- Iron Oxidation
- CO₂ Injection / pH Control
- Aquaculture
- Hydroponics
- Ozonation

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 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.

The XTB 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.

Features & Benefits:

- ~100 nm-sized bubbles.
- 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

Options:

- Remote Water Quality Monitoring
- Remote Dissolved Oxygen Monitoring

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XTB EU Series

MODELS	25 XTB	25 XTB Pumpless	50 XTB	50 XTB Pumpless
LIQUID FLOW CAPACITY				
Flow Rate, m ³ /h	6	6	11	11
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 – 2.5	0 – 2.5	0 - 5	0 - 5
ELECTRICAL POWER				
Voltage (V), Phase (Φ), Frequency (Hz)	230, 1, 50	230, 1, 50	230, 1, 50	230, 1, 50
Pump Motor Power, (kW)	1.12	-	1.48	-
Total Amp Draw	6.4	2.0	8.1	2.0
PUMP				
Pump Type	NPO, TEFC/ Flooded Suction			
Wetted Parts	Viton / 316 SS, Polypropylene, EPDM			
CONTROLS				
Manual	On/Off			
SENSORS (OPTIONAL)				
Dissolved Oxygen (Do) Level	0-40 ppm (+/- 1.5 ppm)			
CONNECTIONS				
Customer Pipe Connection, mm	50	-	63	-
Unit Inlet (Female NPT), mm	50	50	63	63
Unit Discharge (Female NPT), mm	32	32	50	50
Gas Connection ³ , mm	3 Options to choose from: 1/4" Industrial Air; CGA 022 (9/16" -18 UNF Male); 1/4" MNPT (BSPTF)			
REMOTE MONITORING (OPTIONAL)				
Dissolved Oxygen (DO) Level (Sensor Required)	0 – 40 ppm (+/- 1.5 ppm) active control			
Water Pressure	Psi/Bar			
Gas Pressure	Psi/Bar			
Relay	Normally Open			
Data Acquisition	Data plots, Cloud storage (1-year max), Data export, Notifications (SMS/email)			
MATERIAL, DIMENSIONS & WEIGHT				
Frame Material	304 SS (12 Gauge)			
Height X Width X Length, cm	77 X 72 X 112	77 X 72 X 112	77 X 72 X 112	77 X 72 X 112
Weight, kg	90	68	92	69

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MODELS	100 XTB	100 XTB Pumpless	200 XTB
LIQUID FLOW CAPACITY			
Flow Rate, m ³ /h	23	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 - 10	0 - 10	0 - 20
ELECTRICAL POWER			
Voltage (V), Phase (Φ), Frequency (Hz)	400, 3, 50	460, 3, 60 or 230, 1, 50	400, 3, 50
Pump Motor Power, (kW)	3.73	-	3.73
Total Amp Draw	3.9	2.0	5.9
PUMP			
Pump Type	NPO, TEFC/ Flooded Suction		
Wetted Parts	Viton / 316 SS, Polypropylene, EPDM		
CONTROLS			
Manual	On/Off		
SENSORS (OPTIONAL)			
Dissolved Oxygen (Do) Level	0-40 ppm (+/- 1.5 ppm)		
CONNECTIONS			
Customer Pipe Connection, mm	90	-	90
Unit Inlet (Female NPT), mm	63	63	90
Unit Discharge (Female NPT), mm	50	63	90
Gas Connection ³ , mm	3 Options to choose from: 1/4" Industrial Air; CGA 022 (9/16" -18 UNF Male); 1/4" MNPT(BSPTF)		
REMOTE MONITORING (OPTIONAL)			
Dissolved Oxygen (DO) Level (Sensor Required)	0 – 40 ppm (+/- 1.5 ppm)		
Water Pressure	Psi/Bar		
Gas Pressure	Psi/Bar		
Relay	Normally Open		
Data Acquisition	Data plots, Cloud storage (1-year max), Data export, Notifications (SMS/email)		
MATERIAL, DIMENSIONS & WEIGHT			
Frame Material	304 SS (12 Gauge)		
Height X Width X Length, cm	72 X 61 X 134	72 X 61 X 134	73 X 89 X 133
Weight, kg	104	68	118

Note 1: Connections can be flanged or sanitary upon request

Note 2: When using oxygen, Moleaer recommends a pressure regulator w/ delivery range of 5-150 PSI (0.34-10.3 bar).

Note 3: Standard PVC Body with standard centrifugal pump. Other pump options are available upon request.

Note 4: All pumps offered are NPO.

Note 5: Dimensions & weights provided are maximum & for reference only. If the installation space/load is limited, contact Moleaer for precise numbers.

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