

## XTB™ NANOBUBBLE GENERATOR



### TYPICAL APPLICATIONS

- Wastewater Treatment
- MBRs / SBRs/ DAFs
- Aquaculture
- Hydroponics
- Cooling Towers
- Sterilization

### FEATURES

- No Moving Parts
- Plug-and-Play
- Self-Cleaning

The patent-pending Moleaer™ XTB Nanobubble Generator is the most efficient aeration technology to transfer virtually any gas into any liquid. The XTB produces trillions of nanobubbles, ~100nm in size, providing more than 200-times the interfacial surface area of conventional ultra-fine micro bubbles. The XTB transfers gas with greater than 90% efficiency, providing maximum utilization potential, improving the functionality of water, and enhancing wastewater treatment processes. Moleaer's nanobubbles remain in suspension after saturation, creating a reserve of available gas in the liquid.

Available in a variety of configurations, the Moleaer XTB Generators were designed for durable operation, easy installation and straightforward control. The unit has no moving parts and customers can select between open and enclosed pump configurations, making the XTB a truly plug-and-play system.

### FEATURES & BENEFITS

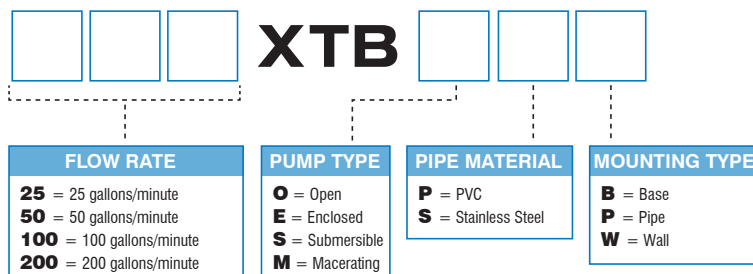
- > 90% standard oxygen transfer efficiency ("SOTE")
- ~ 100nm in size
- Smallest size bubbles creating 200x the interfacial surface area compared to micro bubbles
- Highest concentration of bubbles per cm<sup>3</sup> (>100M bubbles/cm<sup>3</sup>)
- Nanobubbles stay suspended in water after solution 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](http://www.moleaer.com)

SPECIFICATIONS	25 XTB	50 XTB	100 XTB	200 XTB
<b>FLOW SPECIFICATIONS</b>				
Flow Rate, gpm (m <sup>3</sup> /h)	25 (6)	50 (11)	100 (23)	200 (45)
Minimum Discharge Pressure	13 PSIG	13 PSIG	13 PSIG	13 PSIG
Maximum Discharge Pressure	22 PSIG	22 PSIG	22 PSIG	22 PSIG
<b>OPERATING PARAMETERS</b>				
Temperature - PVC Block	41 - 140° F (5 - 60° C)			
Temperature - SS Block	36 - 210° F (0 - 99° C)			
Solids	Up to 3/8 solids, strainer recommended			
Standard Oxygen Transfer Efficiency (SOTE)	> 90%			
<b>AIR FEED SPECIFICATIONS</b>				
Air Flow Rate	0-5 CFH	0-8 CFH	0-15 CFH	0-30 CFH
Minimum Pressure	100 PSI			
Air Quality	ISO 8573 - 1:2010 Class 1.4.1			
<b>PUMP &amp; ELECTRICAL<sup>3,5</sup></b>				
Pump Model	Goulds, NPO, TEFC			
Wetted Parts <sup>4</sup>	Buna/316 SS/Viton			
Pump Voltage	115/230 V	115/230V	230/460V	230/460V
Pump Motor, HP (KW)	1.5 (1.12)	2 (1.48)	3 (2.24)	5 (3.73)
Starter	Onboard NEMA 4X			
<b>CONNECTIONS<sup>2</sup></b>				
Inlet <sup>2</sup> : Inch	1.25" FNPT	1.25" FNPT	2" FNPT	3" FNPT
Discharge <sup>2</sup> : Inch	1" FNPT	1.5" FNPT	2" FNPT	3" FNPT
Air	¼" Industrial	¼" Industrial	¼" Industrial	¼" Industrial
<b>DIMENSIONS &amp; WEIGHT</b>				
Height, Inches (cm)	19 (48)	19 (48)	25 (63.5)	25 (63.5)
Width, Inches (cm)	23 (58)	23 (58)	40 (101.6)	40 (101.6)
Depth, Inches (cm)	20 (51)	20 (51)	23.5 (59.7)	23.5 (59.7)
Shipping Weight Estimate, lbs (kg) <sup>1</sup>	85 (38.6)	90 (40.9)	180 (81.6)	180 (81.6)

## PART NUMBER CONFIGURATOR



- Note 1 Standard PVC Body, with standard Centrifugal pump
- Note 2 Connections can be flanged or sanitary upon request
- Note 3 Standard Pump, optional pumps are available including submersible, trash, and specialty
- Note 4 Goulds NPO Pump, Specified wetted parts optional
- Note 5 Upgraded starter shipped separate and Pump/electrical explosion-proof optional