



## Trident UFB Generators

### Nanobubble / Ultrafine Bubble Generators

#### APPLICATIONS

- Industrial Wastewater Treatment
- Agriculture, Horticulture , Hydroponic Uses
- Open Water Algae & Cyanobacteria Control
- Biofilm & Biofouling Control
- Odor Control
- Mining and Mineral Flotation
- Sediment & Sludge Decomposition
- On-shore and Off-shore Aquaculture
- Fertilizer & Nutrient Reduction
- Water Remediation

The Trident™ ultrafine bubble generator presents a value-driven, energy-efficient, gas transfer technology using Nanobubbles / Ultrafine Bubbles.

#### Features

- Over 90% gas transfer efficiency.
- Capable of creating nanobubbles / ultrafine bubbles, and microbubbles.
- High Zeta Potential for uniform bubble distribution in water, and better floatation efficiency.
- No moving parts to wear out and easy to clean.
- No power required, functional for submersible installations.
- Ready for Ozone, oxygen and many more gases
- Made from our lightweight and ultra strong poly ceramic material with a 10+ year expected lifespan.

#### Available in Sizes

<i>Model</i>	<i>Metric</i>	<i>Imperial</i>
Trident Tiny UFB	0.5 m <sup>3</sup> /h	2 GPM
Trident UFB 1	1 m <sup>3</sup> /h	4 GPM
Trident UFB 3	3 m <sup>3</sup> /h	13 GPM
Trident UFB 5	5 m <sup>3</sup> /h	22 GPM
Trident UFB 8	8 m <sup>3</sup> /h	35 GPM
Trident UFB 10	10 m <sup>3</sup> /h	44 GPM
Trident UFB 20	20 m <sup>3</sup> /h	88 GPM
Trident UFB 30	30 m <sup>3</sup> /h	132 GPM
Trident UFB 50	50 m <sup>3</sup> /h	220 GPM

#### Highlights

- Can be installed in-line to water flow
- Can be integrated into a full system for ease of use and monitoring
- Can work with seawater and other complex fluids

#### Requirements

All Trident based UFB Generators require:

- Specified flow rate, with a tolerance of +/- 10% variance.
- Minimum operational requirements of 1 bar of gas pressure and ½ bar water pressure.

<i>Description</i>	<i>Metric</i>	<i>Imperial</i>
Model name	Trident Nanobubble/Ultrafine Bubble Generator	Trident Nanobubble/Ultrafine Bubble Generator

<i>Water</i>	<i>Metric</i>	<i>Imperial</i>
Minimum Pressure	50 kPa / 0.5 BAR	7 PSI
Maximum Pressure	1000 kPa / 10 BAR	145 PSI
<b>Recomended Pressure</b>	<b>50-100 kPa / 0.5-1 BAR</b>	<b>7-15 PSI</b>
Water Temperature Minimum	-20 °C	-4 °F
Water Temperature Maximum	50 °C	122 °F
Strainer availability and size	No strainer on the equipment is supplied	No strainer on the equipment is supplied

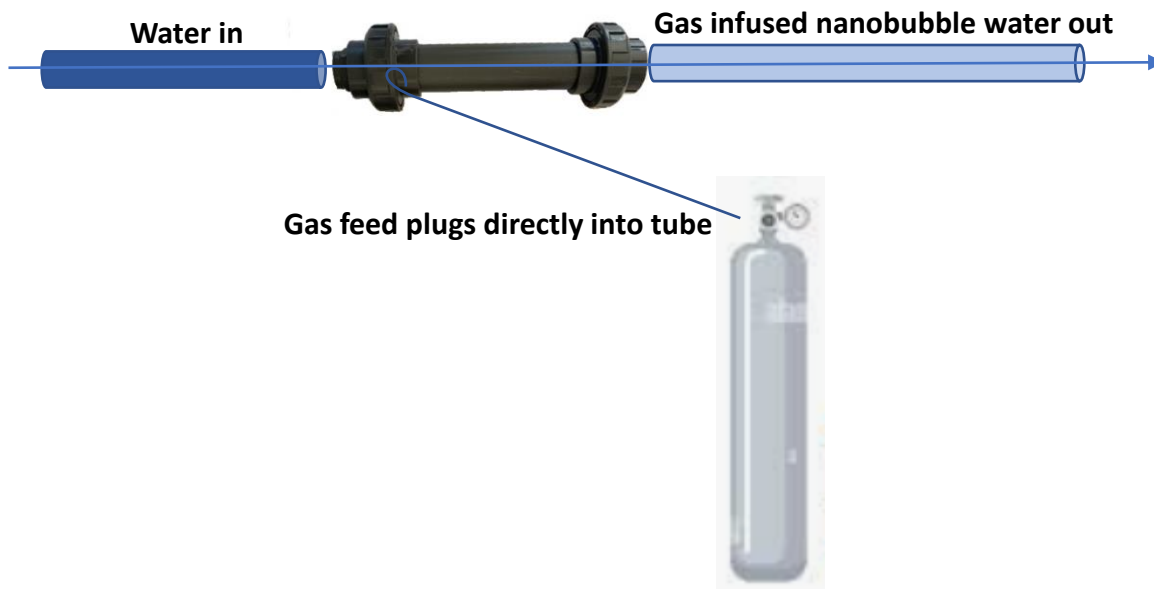
  

<i>Gas</i>	<i>Metric</i>	<i>Imperial</i>
<b>Pressure minimum</b>	<b>100 kPa / 1 BAR</b>	<b>14 PSI</b>
Pressure maximum	400 kPa / 4 BAR	58 PSI
Gas quality	Suitable for O2, Ozone, air, CO2, N2	Suitable for O2, Ozone, air, CO2, N2

<i>Electrical</i>	<i>Metric</i>	<i>Imperial</i>
Unit power consumption	No pump included with this product.	No pump included with this product.
Wetted parts	PVC, Ceramics, and other	PVC, Ceramics, and other
Pump model	Recommended: use of a low head centrifugal pump or pool pump	Recommended: use of a low head centrifugal pump or pool pump
Pump pressure setting	This product works well with most low head pumps. Head 30 meters. (Ask us for more details).	This product works well with most low head pumps. Head 100 feet. (Ask us for more details).
Control	Manual	Manual

## **Basic Minimum Setup:**



### **Notes:**

- **Water intake screen is necessary to prevent clogging in certain environments.**
- **Air filter/dryer is recommended to keep membrane pores free from dust particles**

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