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turbiti turbulent mixer nanobubble generator | 9-1000 lpm

The Turbiti is a turbulent mixer nanobubble generator built for industrial water treatment, aquaculture, and horticulture. Proprietary swirl flow technology generates nanobubbles with no moving parts and minimal maintenance. The stainless steel housing, built-in one-way gas valve, and particle tolerance up to 2 mm make it a reliable fit for both fresh and saltwater applications, from greenhouse crops to shrimp and salmon cultivation.









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turbiti turbulent mixer nanobubble generator | 9-1000 lpm

turbiti turbulent mixer nanobubble generator for industrial use

- easy to install
- ready to connect to many different standard pumps
- saltwater version effectively used in the ocean and saltwater applications
- aeration of lakes and ponds with algae contamination
- nanobubble wastewater aeration
- fish cultivation
- agriculture production
- nanobubble drinking water for animals, chickens pigs, cows
- Turbiti produces billions of nanobubbles

professional nanobubble generator for industrial applications

The turbiti nanobubble generator is a first-class workhorse ultrafine bubble generator. It can be placed in difficult environments. The turbiti has no moving parts, so maintenance is minimal. The turbiti mixer comes in a stainless-steel box with standard, durable male connectors for the water connections. The gas connection is a standard push-to-connect fitting. The gas connection is protected by a high-quality one-way valve, which prevents water from entering your oxygen concentrator and keeps your gas hose dry. The turbiti can handle water with particles up to 2 mm.

volumes by model

turbiti models	Water lpm	Gas lpm
707 / 808	9 - 15	0.45 - 0.75
626 / 727 / 828	75 - 150	3 - 5
636 / 737 / 838	150 - 400	5 - 8
646 / 747 / 848	400 - 600	8 - 24
757 / 858	800 - 1000	40 - 50

Note: Volumes are indications and depend on the pump and pressure in your system

turbiti enhanced static mixer technology

The static mixer originated in mixing two liquids; the first patent for a static mixer was filed in 1965. Instead of mixing two liquids, it is also possible to mix a liquid and a gas. The benefits of the static mixers are that they can treat large volumes of

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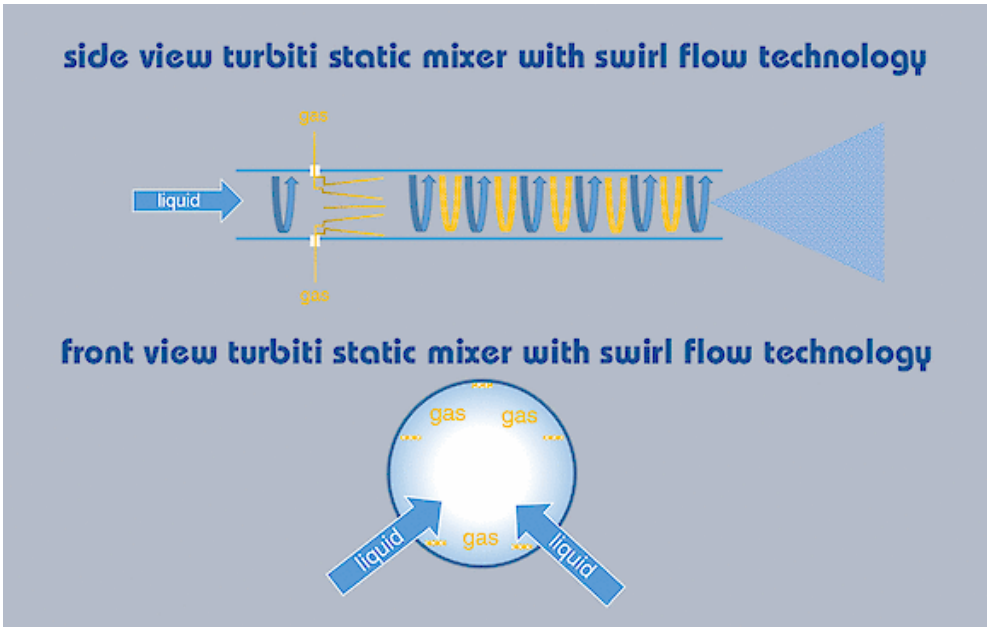
water at once. They are not sensitive to clogging. The acniti technology is based on this principle. Rather than a standard static mixer, acniti has implemented its proprietary swirl-flow technology. The swirl flow technology agitates the water and gas, and, due to the forces in the mixer, nanobubbles are created. In the schematic on the left, you can see how the technology works. The turbiti has an enhanced dissolved aeration performance, dissolving gases like oxygen efficiently and in large quantities in the water.

One of the main benefits of this mixer is the low head required for nanobubble generation. A low head means that much less energy is required compared to the high-head nanobubble generators, which often require 5 times more pressure.



nanobubble applications

This unit is suitable for water treatment applications, including healthy drinking water for livestock, i.e., chickens, cattle, pigs, and poultry. A large industry that utilizes nanobubble aeration mixers is horticultural greenhouse production, which cultivates products such as tomatoes, bell peppers, carnations, roses, lettuce, and strawberries. Apart from sweet-water applications, the unit is also suitable for saltwater applications, such as shrimp and salmon cultivation. We recommend using this product in combination with our industrial oxygen generator. Investing in both the oxygen concentrator and the turbiti nanobubble mixer gives you peace of mind and many years of trouble-free ultrafine bubble generation.

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turbiti integration

The following products have turbiti inside:

- Turbiti Fusion
- Turbiti O2 nanobubble mixer wall mount
- Turbiti submersible nanobubble mixer
- Turbiti O3 nanobubble mixer wall mount
- Swim Puriti O2 nanobubble mixer
- Swim Puriti O3 nanobubble mixer
- Turbiti pump skid nanobubble mixer

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turbiti 737: nanobubble mixer specs 150-400 lpm | acniti

	General		
1	Model name	Turbiti Turbulent Mixer Nanobubble Generator for Industrial Use	
2	Model number	turbiti_737_box304	
	Liquid	**Metric**	**Imperial**
3	Minimum flow / minute	150 Liter	40 Gallon
4	Maximum flow / minute	400 Liter	106 Gallon
5	Minimum flow / hour	9.0 M3	317.8 CF
6	Maximum flow / hour	24 M3	848 CF
7	water temperature minimum	-20 °C	-4 °F
8	water temperature maximum	50 °C	122 °F
9	Strainer availability and size	No strainer, strainer required when particles larger than 1 or 2 mm.	
	Ambient	**Metric**	**Imperial**
10	Ambient temperature minimum	-20 °C	-4 °F
11	Ambient temperature maximum	50 °C	122 °F
12	Relative humidity minimum	0 %	
13	Relative humidity maximum	100 %	
	Gas	**Metric**	**Imperial**
14	Minimum flow / minute	5.0 Liter	1.3 Gallon
15	Maximum flow / minute	8.0 Liter	2.1 Gallon
16	Minimum flow / hour	300 Liter	79 Gallon

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	Gas	Metric	Imperial
17	Maximum flow / hour	480 Liter	127 Gallon
18	Pressure minimum	40 kPa	6 PSI
19	Pressure maximum	350 kPa	51 PSI
20	Gas quality	No corrosive gasses: suitable for O2, air, CO2, N2	
21	Gas remark	The mentioned pressures are recommended pressures for bubble generation. The product itself can withstand pressures up to 400 kPa.	
	Electrical	**Metric**	**Imperial**
22	Unit phase Ø voltage		
23	Unit power consumption	No pump included with this product. Estimated power consumption 750-1000 watts.	
24	Wetted parts	nylon based resins, silicone tube, PPS, EPDM	
25	Pump model	This product works both with submersible pumps and single stage centrifugal pumps.	
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting	This product works well with most low head pumps. Head 10 to 15 meters. (Ask us for more details).	
29	Control	No automatic operation	
	Pump		
30	@option	Grundfos CM10-1	
31	@option	Ebara pump DWO-400	
	Connections		
32	Water inlet	R 2" male connector (50 mm)	
33	Water outlet	R 1" male connector (25 mm)	
34	Gas inlet	10mm standard push-to-connect fitting, 3/8 on request	
	Dimensions & weight	**Metric**	**Imperial**
35	Dim. (w) x (d) x (h)	405 x 100 x 130 mm	15.9 x 3.9 x 5.1 inch

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	Dimensions & weight	Metric	Imperial
36	weight	2.8 Kg	6.2 lbs.
37	HS code	8479.82.0040	
38	Shipping dim. (w)x(d)x(h)	12 x 34 x 12 cm	5 x 13 x 5 inch
39	Shipping weight	5 Kg	11 lbs.
	Remarks		
40	Other remarks	The turbiti UFB mixer works normally well with low head pumps using 750 to 1000 watt of power. (ask us for more details)	

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turbiti 707: nanobubble mixer specs 9-15 lpm | acniti

	General		
1	Model name	Turbiti Turbulent Mixer Nanobubble Generator for Industrial Use	
2	Model number	turbiti_707_box304	
	Liquid	**Metric**	**Imperial**
3	Minimum flow / minute	9.0 Liter	2.4 Gallon
4	Maximum flow / minute	15 Liter	4.0 Gallon
5	Minimum flow / hour	540 Liter	143 Gallon
6	Maximum flow / hour	900 Liter	238 Gallon
7	water temperature minimum	-20 °C	-4 °F
8	water temperature maximum	50 °C	122 °F
9	Strainer availability and size	No strainer, strainer required when particles larger than 1 or 2 mm.	
	Ambient	**Metric**	**Imperial**
10	Ambient temperature minimum	-20 °C	-4 °F
11	Ambient temperature maximum	50 °C	122 °F
12	Relative humidity minimum	0 %	
13	Relative humidity maximum	100 %	
	Gas	**Metric**	**Imperial**
14	Minimum flow / minute	0.5 Liter	0.1 Gallon
15	Maximum flow / minute	0.8 Liter	0.2 Gallon
16	Minimum flow / hour	27 Liter	7.1 Gallon

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	Gas	Metric	Imperial
17	Maximum flow / hour	45 Liter	12 Gallon
18	Pressure minimum	50 kPa	7 PSI
19	Pressure maximum	400 kPa	58 PSI
20	Gas quality	No corrosive gasses: suitable for O2, air, CO2, N2	
21	Gas remark		
	Electrical	**Metric**	**Imperial**
22	Unit phase Ø voltage		
23	Unit power consumption	No pump included with this product. Estimated power consumption 200-850 watts.	
24	Wetted parts	nylon based resins	
25	Pump model	This product works both with submersible pumps and single stage centrifugal pumps.	
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting	This product works well with most low head pumps. Head 10 to 15 meters. (Ask us for more details).	
29	Control	No control	
	Pump		
30	@option	Ebara PRA 0.50	
31	@option	Grundfos CM1-4	
	Connections		
32	Water inlet	SUS316 10mm push to connect quick fitting or 3/8" compression fitting	
33	Water outlet	10mm or 3/8"	
34	Gas inlet	6mm push to connect quick fitting or 1/4" on request	
	Dimensions & weight	**Metric**	**Imperial**
35	Dim. (w) x (d) x (h)	120 x 180 x 140 mm	4.7 x 7.1 x 5.5 inch
36	weight	0.67 Kg	1.5 lbs.

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	Dimensions & weight	Metric	Imperial
37	HS code	8479.82.0040	
38	Shipping dim. (w)x(d)x(h)	16 x 33 x 16 cm	6 x 13 x 6 inch
39	Shipping weight	2 Kg	4 lbs.

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turbiti 727: nanobubble mixer specs 75-150 lpm | acniti

	General		
1	Model name	Turbiti Turbulent Mixer Nanobubble Generator for Industrial Use	
2	Model number	turbiti_727_box304	
	Liquid	**Metric**	**Imperial**
3	Minimum flow / minute	75 Liter	20 Gallon
4	Maximum flow / minute	150 Liter	40 Gallon
5	Minimum flow / hour	4.5 M3	158.9 CF
6	Maximum flow / hour	9.0 M3	317.8 CF
7	water temperature minimum	-20 °C	-4 °F
8	water temperature maximum	50 °C	122 °F
9	Strainer availability and size	No strainer, strainer required when particles larger than 1 or 2 mm.	
	Ambient	**Metric**	**Imperial**
10	Ambient temperature minimum	-20 °C	-4 °F
11	Ambient temperature maximum	50 °C	122 °F
12	Relative humidity minimum	0 %	
13	Relative humidity maximum	100 %	
	Gas	**Metric**	**Imperial**
14	Minimum flow / minute	2.5 Liter	0.7 Gallon
15	Maximum flow / minute	5.0 Liter	1.3 Gallon
16	Minimum flow / hour	150 Liter	40 Gallon

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	Gas	Metric	Imperial
17	Maximum flow / hour	300 Liter	79 Gallon
18	Pressure minimum	50 kPa	7 PSI
19	Pressure maximum	350 kPa	51 PSI
20	Gas quality	No corrosive gasses: suitable for O2, air, CO2, N2	
21	Gas remark		
	Electrical	**Metric**	**Imperial**
22	Unit phase Ø voltage		
23	Unit power consumption	No pump included with this product. Estimated power consumption 100-250 watts.	
24	Wetted parts	Acrylic Styrene Acrylonitrile, PVC, EPDM	
25	Pump model	This product works both with submersible pumps and single stage centrifugal pumps.	
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting	This product works well with most low head pumps. Head 10 to 15 meters. (Ask us for more details).	
29	Control	No automatic operation	
	Pump		
30	@option	Ebara-Matrix-5-3	
31	@option	Grundfos CM5-3	
32	@option	Ebara Matrix 5-3T/0.65	
	Connections		
33	Water inlet	25 mm or 1 inch threaded connection	
34	Water outlet	20 mm or 3/4 inch threaded connection	
35	Gas inlet	10 mm push to connect fitting	
	Dimensions & weight	**Metric**	**Imperial**
36	Dim. (w) x (d) x (h)	113 x 275 x 140 mm	4.4 x 10.8 x 5.5 inch
37	weight	1.9 Kg	4.2 lbs.

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	Dimensions & weight	Metric	Imperial
38	HS code	8479.82.0040	
39	Shipping dim. (w)x(d)x(h)	16 x 33 x 16 cm	6 x 13 x 6 inch
40	Shipping weight	3 Kg	7 lbs.

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turbiti 747: nanobubble mixer specs 400-600 lpm | acniti

	General		
1	Model name	Turbiti Turbulent Mixer Nanobubble Generator for Industrial Use	
2	Model number	turbiti_747_box304	
	Liquid	**Metric**	**Imperial**
3	Minimum flow / minute	400 Liter	106 Gallon
4	Maximum flow / minute	600 Liter	159 Gallon
5	Minimum flow / hour	24 M3	848 CF
6	Maximum flow / hour	36 M3	1,271 CF
7	water temperature minimum	-20 °C	-4 °F
8	water temperature maximum	50 °C	122 °F
9	Strainer availability and size		
	Ambient	**Metric**	**Imperial**
10	Ambient temperature minimum	-20 °C	-4 °F
11	Ambient temperature maximum	50 °C	122 °F
12	Relative humidity minimum	0 %	
13	Relative humidity maximum	100 %	
	Gas	**Metric**	**Imperial**
14	Minimum flow / minute	8.0 Liter	2.1 Gallon
15	Maximum flow / minute	24 Liter	6.3 Gallon
16	Minimum flow / hour	480 Liter	127 Gallon

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	Gas	Metric	Imperial
17	Maximum flow / hour	1,440.0 Liter	380 Gallon
18	Pressure minimum	140 kPa	20 PSI
19	Pressure maximum	350 kPa	51 PSI
20	Gas quality	Air, CO2, N2, O2 including ozone on request.	
21	Gas remark		
	Electrical	**Metric**	**Imperial**
22	Unit phase Ø voltage		
23	Unit power consumption	No pump included with this product. Estimated power consumption 1000-2000 watts.	
24	Wetted parts	Acrylic Styrene Acrylonitrile, PVC, EPDM	
25	Pump model		
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting		
29	Control		
	Pump		
30	@option	Ebara pump 3M 50-125	
31	@option	Grundfos CM15-1	
32	@option	Grundfos CM25-1	
33	@option	Ebara pump DWO-400	
	Connections		
34	Water inlet	50 mm or 2 inch threaded connection	
35	Water outlet	40 mm or 1.5 inch threaded connection	
36	Gas inlet	10 mm push to connect fitting or 3/8" on request	
	Dimensions & weight	**Metric**	**Imperial**
37	Dim. (w) x (d) x (h)	166 x 540 x 166 mm	6.5 x 21.3 x 6.5 inch
38	weight	4.8 Kg	10.6 lbs.

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	Dimensions & weight	Metric	Imperial
39	HS code	8479.82.0040	
40	Shipping dim. (w)x(d)x(h)	24 x 55 x 24 cm	9 x 22 x 9 inch
41	Shipping weight	6 Kg	13 lbs.

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turbiti 757: nanobubble mixer specs 800-1000 lpm | acniti

	General		
1	Model name	Turbiti Turbulent Mixer Nanobubble Generator for Industrial Use	
2	Model number	turbiti_757	
	Liquid	**Metric**	**Imperial**
3	Minimum flow / minute	800 Liter	211 Gallon
4	Maximum flow / minute	1,000.0 Liter	264 Gallon
5	Minimum flow / hour	48 M3	1,695 CF
6	Maximum flow / hour	60 M3	2,119 CF
7	water temperature minimum	-20 °C	-4 °F
8	water temperature maximum	50 °C	122 °F
9	Strainer availability and size	No strainer, strainer required when particles larger than 5 mm.	
	Ambient	**Metric**	**Imperial**
10	Ambient temperature minimum	-20 °C	-4 °F
11	Ambient temperature maximum	50 °C	122 °F
12	Relative humidity minimum	0 %	
13	Relative humidity maximum	100 %	
	Gas	**Metric**	**Imperial**
14	Minimum flow / minute	0.0 M3	1.0 CF
15	Maximum flow / minute	0.0 M3	1.4 CF
16	Minimum flow / hour	1.7 M3	59 CF

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	Gas	Metric	Imperial
17	Maximum flow / hour	2.4 M3	85 CF
18	Pressure minimum	140 kPa	20 PSI
19	Pressure maximum	350 kPa	51 PSI
20	Gas quality	Air or Oxygen	
21	Gas remark		
	Electrical	**Metric**	**Imperial**
22	Unit phase Ø voltage		
23	Unit power consumption		
24	Wetted parts	polycarbonate, PVC, EPDM rubber	
25	Pump model		
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting		
29	Control		
	Connections		
30	Water inlet	Rc3", outer thread	
31	Water outlet	Rc2", inner thread	
32	Gas inlet	10mm or 3/8" SUS 316 compression fitting	
	Dimensions & weight	**Metric**	**Imperial**
33	Diameter x Length	185 x 1053	7.3 x 41.5
34	weight	12.6 Kg	27.8 lbs.
35	HS code	8479.82.0040	
36	Shipping dim. (w)x(d)x(h)	27 x 115 x 27 cm	11 x 45 x 11 inch
37	Shipping weight	17 Kg	37 lbs.

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turbiti 636 seawater nanobubble mixer specs | acniti

	General		
1	Model name	Turbiti Turbulent Mixer Nanobubble Generator for Industrial Use	
2	Model number	turbiti_636_box316L	
	Connections		
3	Water inlet	R 2" male connector (50 mm)	
4	Water outlet	R 1" male connector (25 mm)	
5	Gas inlet	10mm standard push-to-connect fitting, 3/8 on request	
	Dimensions & weight	**Metric**	**Imperial**
6	HS code	8479.82.0040	
	Remarks		
7	Other remarks	Seawater or saltwater variant comes with either bronze or sus316(L) gas fittings.	

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turbiti 626 seawater nanobubble mixer specs | acniti

	General		
1	Model name	Turbiti Turbulent Mixer Nanobubble Generator for Industrial Use	
2	Model number	turbiti_626_box304	
	Connections		
3	Water inlet	25 mm or 1 inch threaded connection	
4	Water outlet	20 mm or 3/4 inch threaded connection	
5	Gas inlet	10 mm push to connect fitting or 3/8" on request	
	Dimensions & weight	**Metric**	**Imperial**
6	HS code	8479.82.0000	
	Remarks		
7	Other remarks	Seawater or saltwater wetted materials nylon and PPS.	

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turbiti 646 seawater nanobubble mixer specs | acniti

	General		
1	Model name	Turbiti Turbulent Mixer Nanobubble Generator for Industrial Use	
2	Model number	turbiti_646_box304	
	Connections		
3	Water inlet	R 2" male connector (50 mm)	
4	Water outlet	R 1" male connector (25 mm)	
5	Gas inlet	10mm standard push-to-connect fitting, 3/8 on request	
	Dimensions & weight	**Metric**	**Imperial**
6	HS code	8479.82.0040	
	Remarks		
7	Other remarks	Seawater or saltwater variant comes with either bronze or sus316(L) gas fittings.	

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