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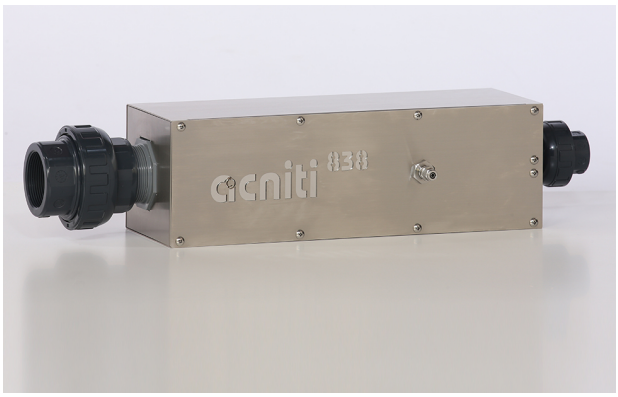
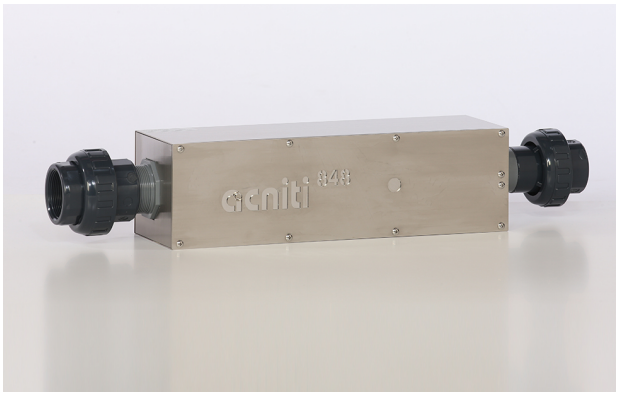
turbiti ozone: static mixer for ozone nanobubbles | acniti

Ozone is one of the most powerful disinfectants available, but getting it into water efficiently is the challenge. Turbiti Ozone nanobubble mixers use proprietary swirl flow technology to dissolve ozone as ~100 nm bubbles, extending ozone residual and improving treatment performance across a range of water volumes and applications.





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turbiti ozone nanobubble mixers for ozone water treatment

- ozone ultrafine bubbles are created with a swirl flow static mixer technology
- flexible installation for your own tailored solutions
- ultrafine ozone bubble generation ~ 100 nm bubble size
- produces billions of ozone nanobubbles
- ultrafine ozone bubbles stay in solution longer, maintaining longer ozone residual
- enhanced technology to hold gas better in solution

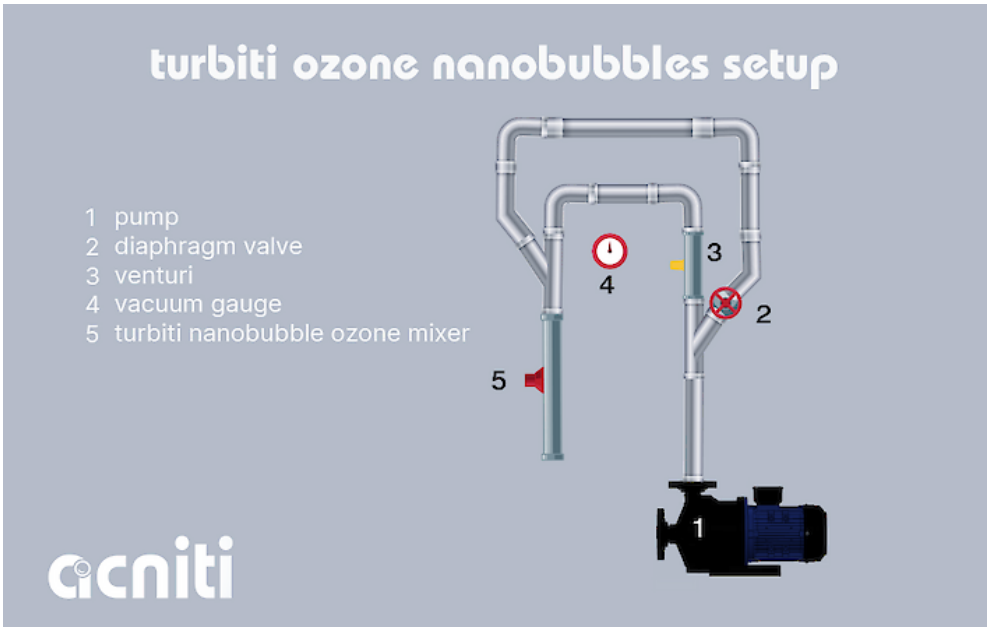
turbiti ozone nanobubbles enhanced swirl flow technology

The static mixer has its origin from mixing two liquids, the first patent for a static mixer was filed in 1965. Instead of mixing two liquids there is also the possibility of mixing a liquid and a gas. The benefits of the static mixers is that they can treat large volumes of water at once. They are not sensitive to clogging. The acniti technology is based on this principle. Rather than a normal static mixer, acniti has implemented their proprietary swirl flow technology. The swirl flow ozone technology beats up the water and ozone, and due to the available shear forces in the mixer nanobubbles are created. In the schematic on the left you can get a visualization of how the technology works. The turbiti has an enhanced dissolved aeration performance, dissolving gasses like ozone efficient and in large quantities in water.

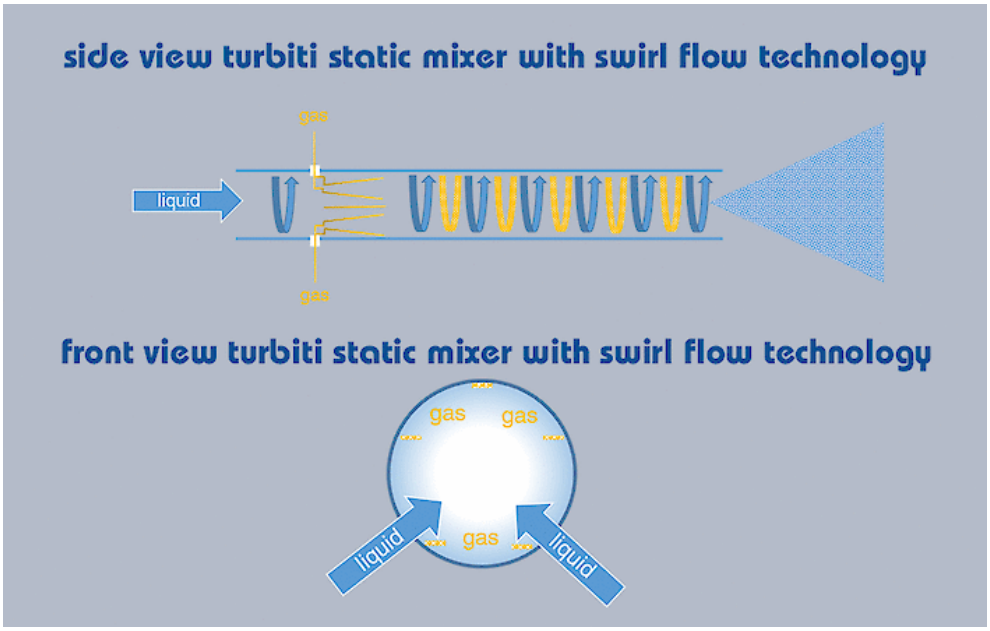
volumes by model

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
858	800 - 1000	40 - 50

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



- Turbiti nanobubble mixer
- Turbiti O2 nanobubble mixer land based
- Turbiti submersible nanobubble mixer
- Turbiti O3 nanobubble mixer land based
- Swim Puriti O2 nanobubble mixer
- Swim Puriti O3 nanobubble mixer



turbiti 838 o3 ozone nanobubble mixer: 150-400 lpm | acniti

	General		
1	Model name	Turbiti Ozone Nanobubble Mixers for Ozone Water Treatment	
2	Model number	Turbiti 838 O3	
	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

	Gas	Metric	Imperial
17	Maximum flow / hour	480 Liter	127 Gallon
18	Pressure minimum	50 kPa	7 PSI
19	Pressure maximum	350 kPa	51 PSI
20	Gas quality	Suitable for ozone	
21	Gas remark		
	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	polycarbonate, PVC, EPDM rubber	
25	Pump model	Ozone resistant single stage centrifugal pumps	
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting		
29	Control	No control	
	Connections		
30	Water inlet	Rc 2", inner thread	
31	Water outlet	Rc 1", inner thread	
32	Gas inlet	via venturi	
	Dimensions & weight	**Metric**	**Imperial**
33	Diameter x Length	106 x 482	4.2 x 19.0
34	weight	1.8 Kg	4.0 lbs.
35	Shipping dim. (w)x(d)x(h)	16 x 55 x 16 cm	6 x 22 x 6 inch
36	Shipping weight	4 Kg	9 lbs.

turbiti 808 o3 ozone nanobubble mixer: 9-15 lpm | acniti

	General		
1	Model name	Turbiti Ozone Nanobubble Mixers for Ozone Water Treatment	
2	Model number	Turbiti 808 O3	
	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

	Gas	Metric	Imperial
17	Maximum flow / hour	45 Liter	12 Gallon
18	Pressure minimum	50 kPa	7 PSI
19	Pressure maximum	350 kPa	51 PSI
20	Gas quality	Suitable for ozone	
21	Gas remark		
	Electrical	**Metric**	**Imperial**
22	Unit phase Ø voltage		
23	Unit power consumption	No pump included with this product. Estimated power consumption 100-500 watts.	
24	Wetted parts	polycarbonate or ASA, PVC, EPDM rubber	
25	Pump model	Ozone resistant single stage centrifugal pumps	
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting		
29	Control	No control	
	Pump Connections		
30	Water inlet	10 mm push to connect fitting or 3/8" on request	
31	Water outlet	10 mm push to connect fitting or 3/8" on request	
32	Gas inlet	via venturi	
	Dimensions & weight	**Metric**	**Imperial**
33	Dim. (w) x (d) x (h)	120 x 180 x 140 mm	4.7 x 7.1 x 5.5 inch
34	weight	1.5 Kg	3.3 lbs.
35	Shipping dim. (w)x(d)x(h)	16 x 33 x 16 cm	6 x 13 x 6 inch
36	Shipping weight	2 Kg	4 lbs.

turbiti 828 o3 ozone nanobubble mixer: 75-150 lpm | acniti

	General		
1	Model name	Turbiti Ozone Nanobubble Mixers for Ozone Water Treatment	
2	Model number	turbiti_828_box304_venturi	
	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	3.0 Liter	0.8 Gallon
15	Maximum flow / minute	5.0 Liter	1.3 Gallon
16	Minimum flow / hour	180 Liter	48 Gallon

	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	Suitable for ozone	
21	Gas remark		
	Electrical	**Metric**	**Imperial**
22	Unit phase Ø voltage		
23	Unit power consumption	No pump included with this product. Estimated power consumption 500-750 watts.	
24	Wetted parts	polycarbonate or ASA, PVC, EPDM rubber	
25	Pump model	Ozone resistant single stage centrifugal pumps	
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting		
29	Control	No control	
	Connections		
30	Water inlet	Rc 1.25", inner thread	
31	Water outlet	Rc 3/4", inner thread	
32	Gas inlet	via venturi	
	Dimensions & weight	**Metric**	**Imperial**
33	Dim. (w) x (d) x (h)	120 x 422 x 116 mm	4.7 x 16.6 x 4.6 inch
34	weight	2.8 Kg	6.2 lbs.
35	HS code	8479.82.0040	
36	Shipping dim. (w)x(d)x(h)	55 x 16 x 16 cm	22 x 6 x 6 inch
37	Shipping weight	3 Kg	7 lbs.

turbiti 848 o3 ozone nanobubble mixer - 400-600 lpm | acniti

	General		
1	Model name	Turbiti Ozone Nanobubble Mixers for Ozone Water Treatment	
2	Model number	Turbiti 848 O3	
	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	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	14 Liter	3.7 Gallon
15	Maximum flow / minute	16 Liter	4.2 Gallon
16	Minimum flow / hour	840 Liter	222 Gallon

	Gas	Metric	Imperial
17	Maximum flow / hour	960 Liter	254 Gallon
18	Pressure minimum	50 kPa	7 PSI
19	Pressure maximum	350 kPa	51 PSI
20	Gas quality	Suitable for ozone	
21	Gas remark		
	Electrical	**Metric**	**Imperial**
22	Unit phase Ø voltage		
23	Unit power consumption	No pump included with this product. Estimated power consumption 1500-2500 watts.	
24	Wetted parts	polycarbonate, PVC, EPDM rubber	
25	Pump model	Ozone resistant single stage centrifugal pumps	
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting		
29	Control	No control	
	Connections		
30	Water inlet	Rc2", inner thread	
31	Water outlet	40 mm or 1.5 inch threaded connection	
32	Gas inlet	via venturi	
	Dimensions & weight	**Metric**	**Imperial**
33	Dim. (w) x (d) x (h)	720 x 105 x 105 mm	28.3 x 4.1 x 4.1 inch
34	weight	5 Kg	11.0 lbs.
35	Shipping dim. (w)x(d)x(h)	84 x 25 x 26 cm	33 x 10 x 10 inch
36	Shipping weight	5.5 Kg	12 lbs.

turbiti 858 o3 ozone nanobubble mixer: 800-1200 lpm | acniti

	General		
1	Model name	Turbiti Ozone Nanobubble Mixers for Ozone Water Treatment	
2	Model number	turbiti_858_oem_venturi	
	Liquid	**Metric**	**Imperial**
3	Minimum flow / minute	800 Liter	211 Gallon
4	Maximum flow / minute	1,200.0 Liter	317 Gallon
5	Minimum flow / hour	48 M3	1,695 CF
6	Maximum flow / hour	72 M3	2,543 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	1.1 CF
16	Minimum flow / hour	1.7 M3	59 CF

	Gas	Metric	Imperial
17	Maximum flow / hour	1.9 M3	68 CF
18	Pressure minimum	140 kPa	20 PSI
19	Pressure maximum	350 kPa	51 PSI
20	Gas quality	Suitable for ozone	
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	Ozone resistant single stage centrifugal pumps	
26	Pump phase Ø voltage		
27	Pump phase Ø voltage 60Hz		
28	Pump pressure setting		
29	Control	No control	
	Connections		
30	Water inlet	Rc3", outer thread	
31	Water outlet	Rc2", inner thread	
32	Gas inlet	via venturi	
	Dimensions & weight	**Metric**	**Imperial**
33	Diameter x Length	118 x 667	4.6 x 26.3
34	weight	11.1 Kg	24.5 lbs.
35	HS code	8479.82.0040	
36	Shipping dim. (w)x(d)x(h)	84 x 25 x 26 cm	33 x 10 x 10 inch
37	Shipping weight	12 Kg	26 lbs.