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turbiti fusion: micro nanobubble generator | acniti

The Turbiti Fusion is a plug-and-play micro nanobubble generator using a turbulent mixer-ejector principle to produce billions of ultrafine bubbles per minute. With flow rates of 540–900 L/h and compatibility with O_2, air, CO_2, N_2 and ozone, it delivers superior dissolved oxygen levels for water treatment, aquaculture, and biochemical processes. Available in 115V and 230V configurations.

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turbiti fusion: compact micro nanobubble generator for water treatment

- Turbiti fusion micro nanobubble generator
- Plug and Play pump included.
- Little gas pressure required just to open the crack valve
- Suitable for lab use and continuous use in small applications
- Frequency drive for pump speed control included

The Turbiti Fusion micro-nanobubble generator is designed to enhance gas-liquid mixing much more efficiently, with clear applications in water treatment, aquaculture, and various biochemical processes. What stands out is how it produces an enormous number of ultrafine bubbles every minute - billions, in fact - which significantly increase oxygenation and help dissolve gases like nitrogen, CO_2, ozone, and even regular air.

The system is available in two main versions: the 7- and 8-series. Both use a stainless-steel pump that can withstand harsher environments. The 606 model is specifically designed for use with seawater while the 808 can use corrosive gases, which can otherwise be a serious headache for maintenance. Speaking of maintenance, that's one of the draws here; it's engineered so you don't have to constantly tinker with it.

Energy use also stays on the lower side, partly because of the variable frequency drive and a design that seems more thoughtful than flashy. It's compact, doesn't demand much space, and offers a range of installation options, which could make it easier to slot into existing setups rather than forcing big redesigns.

In terms of performance, the Turbiti Fusion runs at 540-900 liters per hour. It works in water temperatures from freezing to 40°C, with ambient air temperatures from -10°C to 40°C, so pretty versatile in most ordinary climates.

What might attract professionals, though, is less about the specs on paper and more about how it stacks against alternatives. Compared to static mixers or rotary systems, it tends to achieve higher dissolved oxygen levels and is more reliable in continuous use. Of course, like with any specialized equipment, its value probably depends on whether your project really needs that degree of oxygen saturation, but for people working in demanding water environments, it does appear to create an edge.

turbiti fusion 707 115v

	Description	Metric	Imperial
1	Model name	turbiti fusion 707 115V	turbiti fusion 707 115V
2	Model number	turbiti_fusion_707_115V	turbiti_fusion_707_115V
	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	0 °C	32 °F
8	water temperature maximum	40 °C	104 °F
	Ambient	**Metric**	**Imperial**
9	Ambient temperature minimum	-10 °C	14 °F
10	Ambient temperature maximum	40 °C	104 °F
11	Relative humidity minimum	0 %	0 %
12	Relative humidity maximum	90 %	90 %
	Gas	**Metric**	**Imperial**
13	Minimum flow / minute	0.2 Liter	0.1 Gallon
14	Maximum flow / minute	0.6 Liter	0.2 Gallon
15	Minimum flow / hour	12 Liter	3.2 Gallon
16	Maximum flow / hour	36 Liter	9.5 Gallon
17	Pressure minimum	50 kPa	7 PSI
18	Pressure maximum	400 kPa	58 PSI
19	Gas quality	No corrosive gases	No corrosive gases

	Gas	Metric	Imperial
20	Gas remark	O2, Air, CO2, N2	O2, Air, CO2, N2
	Electrical	**Metric**	**Imperial**
21	Unit phase Ø voltage	1 Ø 115 VAC	1 Ø 115 VAC
22	Unit power consumption	850 watts	850 watts
23	Wetted parts	SUS304, SUS316, PVC, ASA, brass	SUS304, SUS316, PVC, ASA, brass
24	Pump motor 50Hz	550 Watt	0.7 hp
25	Pump head 50Hz	35 Meter	115 ft
	Connections	**Metric**	**Imperial**
26	Water inlet	RC 3/4"	RC 3/4"
27	Water outlet	RC 3/8"	RC 3/8"
28	Gas inlet	6mm or 1/4"	6mm or 1/4"
	Dimensions & weight	**Metric**	**Imperial**
29	Dim. (w) x (d) x (h)	270 x 550 x 450 mm	10.6 x 21.7 x 17.7 inch
30	weight	18.8 Kg	41.4 lbs.
31	HS code	8479.82.0040	8479.82.0040
32	Shipping dim. (w)x(d)x(h)	36 x 61 x 46 cm	14 x 24 x 18 inch
33	Shipping weight	21 Kg	46 lbs.

turbiti fusion 707 230v

	Description	Metric	Imperial
1	Model name	turbiti fusion 707 230V	turbiti fusion 707 230V
2	Model number	turbiti_fusion_707_230V	turbiti_fusion_707_230V
	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	0 °C	32 °F
8	water temperature maximum	40 °C	104 °F
	Ambient	**Metric**	**Imperial**
9	Ambient temperature minimum	-10 °C	14 °F
10	Ambient temperature maximum	40 °C	104 °F
11	Relative humidity minimum	0 %	0 %
12	Relative humidity maximum	90 %	90 %
	Gas	**Metric**	**Imperial**
13	Minimum flow / minute	0.2 Liter	0.1 Gallon
14	Maximum flow / minute	0.6 Liter	0.2 Gallon
15	Minimum flow / hour	12 Liter	3.2 Gallon
16	Maximum flow / hour	36 Liter	9.5 Gallon
17	Pressure minimum	50 kPa	7 PSI
18	Pressure maximum	400 kPa	58 PSI
19	Gas quality	No corrosive gases	No corrosive gases

	Gas	Metric	Imperial
20	Gas remark	O2, Air, CO2, N2	O2, Air, CO2, N2
	Electrical	**Metric**	**Imperial**
21	Unit phase Ø voltage	1 Ø 230 VAC	1 Ø 230 VAC
22	Unit power consumption	850 watts	850 watts
23	Pump motor 50Hz	550 Watt	0.7 hp
24	Pump head 50Hz	35 Meter	115 ft
	Connections	**Metric**	**Imperial**
25	Water inlet	RC 3/4"	RC 3/4"
26	Water outlet	RC 3/8"	RC 3/8"
27	Gas inlet	6mm or 1/4"	6mm or 1/4"
	Dimensions & weight	**Metric**	**Imperial**
28	Dim. (w) x (d) x (h)	270 x 550 x 450 mm	10.6 x 21.7 x 17.7 inch
29	weight	18.8 Kg	41.4 lbs.
30	Shipping dim. (w)x(d)x(h)	36 x 61 x 46 cm	14 x 24 x 18 inch
31	Shipping weight	21 Kg	46 lbs.

turbiti fusion 808 115v

	Description	Metric	Imperial
1	Model name	turbiti fusion 808 115V	turbiti fusion 808 115V
2	Model number	turbiti_fusion_808_115	turbiti_fusion_808_115
	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	0 °C	32 °F
8	water temperature maximum	40 °C	104 °F
	Ambient	**Metric**	**Imperial**
9	Ambient temperature minimum	-10 °C	14 °F
10	Ambient temperature maximum	40 °C	104 °F
11	Relative humidity minimum	0 %	0 %
12	Relative humidity maximum	90 %	90 %
	Gas	**Metric**	**Imperial**
13	Minimum flow / minute	0.2 Liter	0.1 Gallon
14	Maximum flow / minute	0.6 Liter	0.2 Gallon
15	Minimum flow / hour	12 Liter	3.2 Gallon
16	Maximum flow / hour	36 Liter	9.5 Gallon
17	Pressure minimum	50 kPa	7 PSI
18	Pressure maximum	400 kPa	58 PSI
19	Gas quality	No corrosive gases	No corrosive gases

	Gas	Metric	Imperial
20	Gas remark	O2, Air, CO2, N2, O3	O2, Air, CO2, N2, O3
	Electrical	**Metric**	**Imperial**
21	Unit phase Ø voltage	1 Ø 115 VAC	1 Ø 115 VAC
22	Unit power consumption	850 watts	850 watts
23	Wetted parts	SUS304, SUS316, PVC, ASA	SUS304, SUS316, PVC, ASA
24	Pump motor 50Hz	550 Watt	0.7 hp
25	Pump head 50Hz	35 Meter	115 ft
	Connections	**Metric**	**Imperial**
26	Water inlet	RC 3/4"	RC 3/4"
27	Water outlet	RC 3/8"	RC 3/8"
28	Gas inlet	6mm or 1/4"	6mm or 1/4"
	Dimensions & weight	**Metric**	**Imperial**
29	Dim. (w) x (d) x (h)	270 x 550 x 450 mm	10.6 x 21.7 x 17.7 inch
30	weight	18.8 Kg	41.4 lbs.
31	Shipping dim. (w)x(d)x(h)	36 x 61 x 46 cm	14 x 24 x 18 inch
32	Shipping weight	21 Kg	46 lbs.

turbiti fusion 808 230v

	Description	Metric	Imperial
1	Model name	turbiti fusion 808 230V	turbiti fusion 808 230V
2	Model number	turbiti_fusion_808_230V	turbiti_fusion_808_230V
	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	0 °C	32 °F
8	water temperature maximum	40 °C	104 °F
	Ambient	**Metric**	**Imperial**
9	Ambient temperature minimum	-10 °C	14 °F
10	Ambient temperature maximum	40 °C	104 °F
11	Relative humidity minimum	0 %	0 %
12	Relative humidity maximum	90 %	90 %
	Gas	**Metric**	**Imperial**
13	Minimum flow / minute	0.2 Liter	0.1 Gallon
14	Maximum flow / minute	0.6 Liter	0.2 Gallon
15	Minimum flow / hour	12 Liter	3.2 Gallon
16	Maximum flow / hour	36 Liter	9.5 Gallon
17	Pressure minimum	50 kPa	7 PSI
18	Pressure maximum	400 kPa	58 PSI
19	Gas quality	No corrosive gases	No corrosive gases

	Gas	Metric	Imperial
20	Gas remark	O2, Air, CO2, N2, O3	O2, Air, CO2, N2, O3
	Electrical	**Metric**	**Imperial**
21	Unit phase Ø voltage	1 Ø 230 VAC	1 Ø 230 VAC
22	Unit power consumption	850 watts	850 watts
23	Wetted parts	SUS304, SUS316, PVC, ASA	SUS304, SUS316, PVC, ASA
24	Pump motor 50Hz	550 Watt	0.7 hp
25	Pump head 50Hz	35 Meter	115 ft
	Connections	**Metric**	**Imperial**
26	Water inlet	RC 3/4"	RC 3/4"
27	Water outlet	RC 3/8"	RC 3/8"
28	Gas inlet	6mm or 1/4"	6mm or 1/4"
	Dimensions & weight	**Metric**	**Imperial**
29	Dim. (w) x (d) x (h)	270 x 550 x 450 mm	10.6 x 21.7 x 17.7 inch
30	weight	18.8 Kg	41.4 lbs.
31	Shipping dim. (w)x(d)x(h)	36 x 61 x 46 cm	14 x 24 x 18 inch
32	Shipping weight	21 Kg	46 lbs.