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**acniti**

## ultrafine galf standard

Standard ultrafine GaLF developing optimum measuring and analyzing technologies

## ultrafine galf standard

### ultrafine galf standard nanobubble generator

- ✓ Generates ultrafine bubbles easily
- ✓ compact size - can fit under a desk in a laboratory
- ✓ Superior features in compact size
- ✓ Ultrafine bubbles have a diameter of 100 to 200 nm
- ✓ Ultrafine bubble concentration of 200 to 300 million / ml or more
- ✓ Automatic air suction inlet, no compressor required
- ✓ Inlet available for inert gasses such as nitrogen

The IDEC GaLF technology succeeds in generating one billion stable bubbles per milliliter in water that are as tiny as 100 nm or less than 1 micron in diameter. Using this ultrafine bubble water can help biological processes in plants and fish.

Besides the improved ultrafineGaLF standard lab model, IDEC provides other GaLF models such as agriGaLF, ultrafineGaLF High Concentration, and the miniGaLF. The miniGaLF is IDEC's entry level GaLF model designed for companies, universities, research institutes and people who want to learn about ultrafine bubble technology. For production of larger volumes of liquids please consider the agriGaLF as this is the high-volume solution or the turbiti nanobubble mixer for lake pond or seawater treatment. For researchers and product developers, that need the highest density of bubbles IDEC provides the ultrafineGaLF high concentration, this is the top model delivering the smallest bubble size with the highest concentration of ultrafine bubbles in the industry.

## ultrafinegalf standard specs

	Description	Metric	Imperial
1	Model name	ultrafineGaLF standard	ultrafineGaLF standard
2	Model number	FZ1N-05S	FZ1N-05S
	Liquid	Metric	Imperial
3	Flow / minute 50 Hz	8.0 Liter	2.1 Gallon
4	Flow / minute 60 Hz	9.0 Liter	2.4 Gallon
5	Flow / hour 50 Hz	480 Liter	127 Gallon
6	Flow / hour 60 Hz	540 Liter	143 Gallon
7	water temperature minimum	0 °C	32 °F
8	water temperature maximum	50 °C	122 °F
9	Strainer availability and size	Yes 400 µm	Yes 400 µm
10	Recommended inlet filter(s)	Small pump inlet filter series	Small pump inlet filter series
	Ambient	Metric	Imperial
11	Ambient temperature minimum	0 °C	32 °F
12	Ambient temperature maximum	40 °C	104 °F
13	Relative humidity minimum	45 %	45 %
14	Relative humidity maximum	85 %	85 %
	Gas	Metric	Imperial
15	Flow / minute	0.5 Liter	0.1 Gallon
16	Flow / minute	0.6 Liter	0.2 Gallon
17	Flow / hour	30 Liter	7.9 Gallon

Gas		Metric	Imperial
18	Flow / hour	36 Liter	9.5 Gallon
19	Pressure 50 Hz	0.001 kPa	0 PSI
20	Pressure 60 Hz	0.001 kPa	0 PSI
21	Gas quality	Do not use corrosive gases. Use of Oxygen, Carbon Dioxide, Nitrogen or Ambient Air is allowed.	Do not use corrosive gases. Use of Oxygen, Carbon Dioxide, Nitrogen or Ambient Air is allowed.
Electrical		Metric	Imperial
22	Unit phase Ø voltage	1Ø 100 VAC	1Ø 100 VAC
23	Unit power consumption	1000 watts	1000 watts
24	Wetted parts	Stainless steel SUS304	Stainless steel SUS304
25	Pump model	Asahi Kogyo APH-31-CA	Asahi Kogyo APH-31-CA
26	Pump phase Ø voltage	1 Ø 100 VAC 50/60Hz	1 Ø 100 VAC 50/60Hz
27	Control	PLC-control	PLC-control
Connections		Metric	Imperial
28	Water inlet	1/2 inch, 15A	1/2 inch, 15A
29	Water outlet	1/2 inch, 15A	1/2 inch, 15A
Dimensions & weight		Metric	Imperial
30	Dim. (w) x (d) x (h)	300 x 360 x 543 mm	11.8 x 14.2 x 21.4 inch
31	weight	30 Kg	66.1 lbs.