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ultrafine minigalf nanobubble generator | lab-scale r&d university

The ultrafine miniGaLF is an entry-level GaLF nanobubble generator for research, designed for universities, laboratories, and OEMs who want to explore ultrafine bubble technology. It connects directly to a water tap and gas source and can be configured with a Plus recirculation option to achieve higher ultrafine bubble concentrations for water treatment, aquaculture, agriculture, and product development.



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minigalf: entry-level ultrafine nanobubble generator for research & development

- ✓ compact design, small footprint
- ✓ Direct connection to faucet
- ✓ miniGaLF Plus: expand the unit with a pump, to recirculate water and generate high concentrated bubble water.
- ✓ efficient gas dissolution
- ✓ 18 liter Plexiglass water tank available.

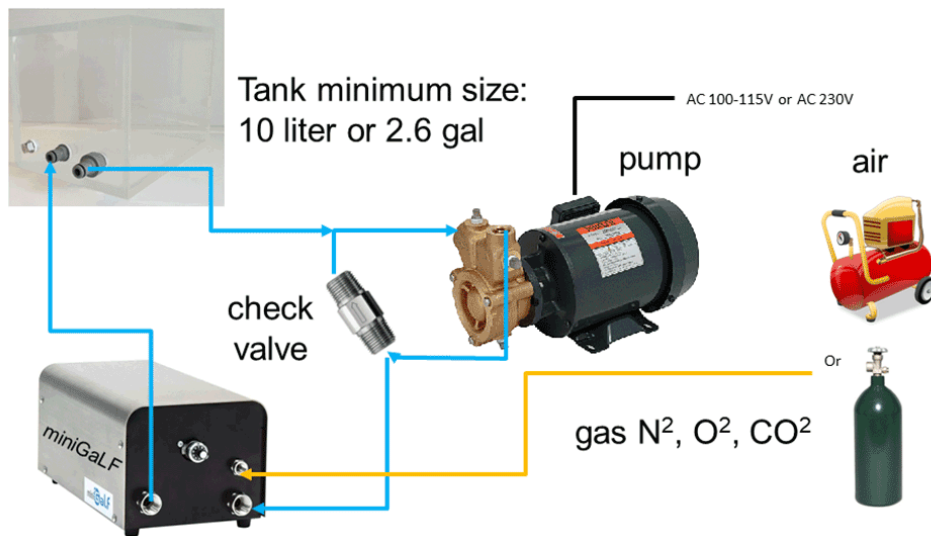
research

The miniGaLF is an entry-level GaLF model designed for companies, universities, research institutes, and individuals who want to learn about ultrafine bubble technology. The miniGaLF offers numerous possibilities for creating your ultrafine bubble application, as it is easily fitted and retrofitted into existing machines and processes. In the most straightforward setup, just connect the miniGaLF to your water tap and add a gas source, either from a compressor or a gas cylinder, and you are ready to go. In the more advanced setup, you can add a recirculation system to achieve higher concentrations of ultrafine bubble water, which we refer to as Plus as an option. The "-Plus" version has a check valve and a pump. Read the blog post about the miniGaLF -Plus version for more information on how to integrate the unit with a pump.

easy to install and use

The nanobubble unit is the most popular model. The miniGaLF comes with a power adapter from 115 Volts to 230 Volts, so it always matches the local power in your office or home. When connecting the miniGaLF to a faucet, ensure the water supply is at least 7.5 liters/minute. Test this by running the faucet for 1 minute, collecting the water in a bucket, and measuring the volume.

acniti miniGaLF -Plus



more options

When you need to work with ozone or want to avoid turbulence, check out our microStar.

Besides the miniGaLF, Acniti provides other GaLF models such as agriGaLF, high-concentration GaLF, and custom-built units. When larger volumes of liquids are required, consider the agriGaLF as this is our high-volume solution, or the Turbiti UFB Mixers for lake, pond, or seawater treatment. For researchers and product developers who require the highest density of bubbles, Acniti provides the high-concentration GaLF. This top model delivers the smallest bubble size with the highest concentration of ultrafine bubbles in the industry.

minigalf ufb specs

	Description	Metric	Imperial
1	Model name	miniGaLF UFB	miniGaLF UFB
2	Model number	FZ1N-04FB	FZ1N-04FB
	Liquid	Metric	Imperial
3	Flow / minute	7.5 Liter	2.0 Gallon
4	Flow / hour	450 Liter	119 Gallon
5	water temperature minimum	0 °C	32 °F
6	water temperature maximum	50 °C	122 °F
7	Strainer availability and size	No strainer (Remark minimum water pressure miniGaLF 300kPa, or 43.5 psi)	No strainer (Remark minimum water pressure miniGaLF 300kPa, or 43.5 psi)
8	Recommended inlet filter(s)	Small pump inlet filter series	Small pump inlet filter series
	Ambient	Metric	Imperial
9	Ambient temperature minimum	0 °C	32 °F
10	Ambient temperature maximum	40 °C	104 °F
11	Relative humidity minimum	45 %	45 %
12	Relative humidity maximum	85 %	85 %
	Gas	Metric	Imperial
13	Minimum flow / minute	0.3 Liter	0.1 Gallon
14	Maximum flow / minute	0.4 Liter	0.1 Gallon
15	Minimum flow / hour	18 Liter	4.8 Gallon
16	Maximum flow / hour	24 Liter	6.3 Gallon

Gas		Metric	Imperial
17	Pressure minimum	100 kPa	15 PSI
18	Pressure maximum	300 kPa	44 PSI
19	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.
20	Gas remark	Gas intake time 5 seconds. Produce bubbles time 50 seconds.	Gas intake time 5 seconds. Produce bubbles time 50 seconds.
Electrical		Metric	Imperial
21	Unit phase Ø voltage	1 Ø 100 ~ 240 VAC	1 Ø 100 ~ 240 VAC
22	Unit power consumption	65 watts	65 watts
23	Wetted parts	SUS304, Nylon, Copper, PVC	SUS304, Nylon, Copper, PVC
24	Pump model		
25	Pump phase Ø voltage		
26	Pump phase Ø voltage 60Hz		
27	Pump pressure setting		
28	Control		
Pump			
29	@option	miniGaLF pump option Lowara PM21	
30	@option	Ebara PRA 0.50	
31	@option	Aquavar e-ABII	
32	@option	Grundfos CM1-4	
Connections		Metric	Imperial
33	Water inlet	Rc 1/2"	Rc 1/2"
34	Water outlet	RC 1/2	RC 1/2
35	Gas inlet	RC 1/4	RC 1/4

Dimensions & weight		Metric	Imperial
36	Dim. (w) x (d) x (h)	175 x 320 x 142 mm	6.9 x 12.6 x 5.6 inch
37	weight	6.9 Kg	15.2 lbs.
38	Shipping dim. (w)x(d)x(h)	32 x 34 x 42 cm	13 x 13 x 17 inch
39	Shipping weight	8.5 Kg	19 lbs.
Remarks			
40	Other remarks	<input checked="" type="checkbox"/> Remark minimum water pressure miniGaLF 300kPa, or 43.5 psi	