

Solari MiniGaLF ULTRAFINE BUBBLE GENERATOR

Easy to install
Compact design with small footprint
Direct connection to tap
Efficient gas dissolution

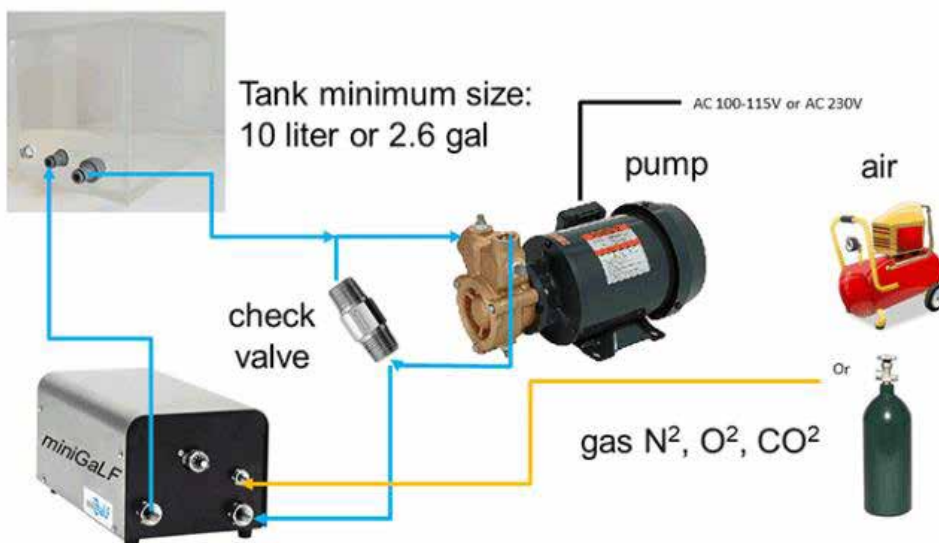
The Solari miniGaLF is an entry level GaLF model designed for companies, universities, research institutions and individuals that want to learn about ultrafine bubble (UFB) technology. It provides a lot of possibilities to design your own UFB application as it is easy to fit or retrofit to existing machines and processes. In the simplest setup just connect the miniGaLF to your water tap and add a gas source, either from a compressor or a cylinder and you are good to go. In the more advanced setup, you can add a reticulation system to achieve higher concentrations of ultrafine bubble water, called a -PLUS option.



Situated to all non corrosive gases
such as air, O₂, N₂ and CO₂

Not suited for corrosive gases or ozone

For higher concentrations use the -PLUS version



The product comes with a 115 to 230V adaptor providing flexibility in power source.

When connected to a tap, ensure the water flow is 7.5 litres/minute. Test by running for 1 minute, collect the water and measure.

Produces bubbles intermittently. Gas intake lasts about 5 seconds - releases no bubbles and water. After gas intake, production period of 50 seconds.

PRODUCT DATA SHEET

When the user application requires air as nanobubbles, the easiest way is to buy an air compressor.

The air compressor requires a small tank, as the tankless models are not able to deliver enough air during the gas intake period. Can be purchased online or from nearest hardware store.

To protect the tubing and pump, install a check valve during the gas intake period. The miniGaLF does not take in any water and while the pump keeps running, this will build up a lot of pressure in the tubing and shortens the life of the pump.

Install a Swagelok check valve SS-8CPA2-RT-3 or similar, and when the pressure is getting too high in the system, the check valve will open and divert the water into the recirculation tank.

For the pump you need a minimum head of 30 metres, (300kPa) but recommended to have an additional 20% capacity and a flow rate of 7.5 litres/minute. Suitable pumps are the Lowara PM21, which runs on single phase 220V 50Hz or Pentax PM25 for countries on 60Hz.

If this seems to be too much work or too difficult, we recommend looking at the Solari high concentration GaLF model, as this unit is an all-in-one solution. Does not need a compressor and has a pump internally.

Model Name	Solari MiniGaLF	
Model Number	SOL-FZ1N-04FB	
Liquid	Metric	Imperial
Flow / minute	7.5 Liter	2.0 Gallon
Flow / hour	450 Liter	119 Gallon
water temperature minimum	0 °C	32 °F
water temperature maximum	50 °C	122 °F
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)
Recommended inlet filter(s)	RF100 Single	RF100 Single
Ambient	Metric	Imperial
Ambient temperature minimum	0 °C	32 °F
Ambient temperature maximum	40 °C	104 °F
Relative humidity minimum	45%	45%
Relative humidity maximum	85%	85%
Gas	Metric	Imperial
Minimum flow / minute	0.3 Liter	0.1 Gallon
Maximum flow / minute	0.4 Liter	0.1 Gallon
Minimum flow / hour	18 Liter	4.8 Gallon
Maximum flow / hour	24 Liter	6.3 Gallon
Pressure minimum	100 kPa	15 PSI
Pressure maximum	300 kPa	44 PSI
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.
Gas remark	Gas intake time 5 seconds. Produce bubbles time 50 seconds.	Gas intake time 5 seconds. Produce bubbles time 50 seconds.
Electrical		
Unit phase Ø voltage	1 Ø 100 ~ 240 VAC	1 Ø 100 ~ 240 VAC
Unit power consumption	65 watts	65 watts
Wetted parts	SUS304, Nylon, Copper, PVC	SUS304, Nylon, Copper, PVC
Connections		
Water inlet	RC 1/2	RC 1/2
Water outlet	RC 1/2	RC 1/2
Gas inlet	RC 1/4	RC 1/4
Size and Weight	Metric	Imperial
Dim. (w) x (d) x (h)	175 x 320 x 142 mm	6.9 x 12.6 x 5.6 inch
weight	6.9 Kg	15.2 lbs.
Shipping dim. (w)x(d)x(h)	32 x 34 x 42 cm	13 x 13 x 17 inch
Shipping weight	8.5 Kg	19 lbs.
Other remarks	Remark minimum water pressure miniGaLF 300kPa, or 43.5 psi	

When you want higher concentrations of bubbles i.e. 100 million or more than two or more passes of the water through the Solari miniGaLF are required. We call this the Solari miniGaLF -Plus version.

For the Solari miniGaLF -Plus model, the user needs to prepare a pump, a water tank with a water inlet and outlet and a check-valve to protect the pump and tubing.



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