

Best Suited To:

The 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.

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

Not Suited for corrosive gases

Produces bubbles intermittently. Gas intake lasts about 5 seconds - releases no bubbles and water. After gas intake, production period of 45 seconds.

miniGaLF Ultrafine Bubble Generator



Compact Design with Small Footprint

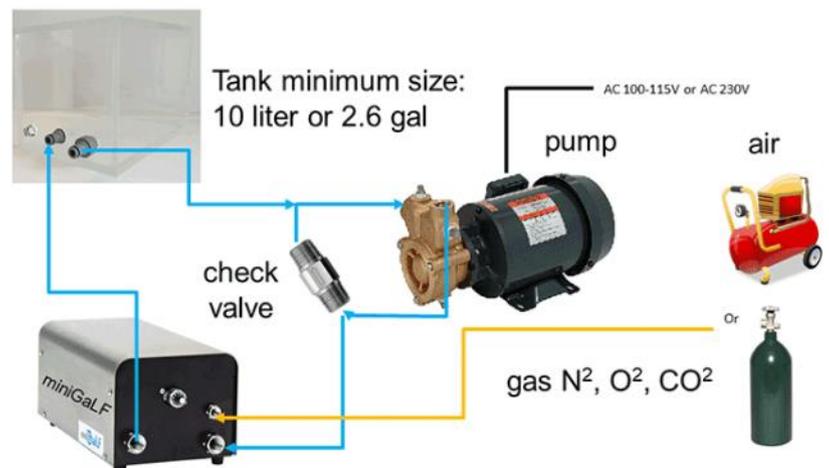
Direct Connection to Tap

Efficient Gas Dissolution

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

For Higher Concentrations use the PLUS version



When you connect to a tap, the bubble concentration in 1ml after 1-minute run with 7.5 litres is 70-80 million bubbles. Higher concentrations are gained by multiple passes. You need a pump, a water tank with a water inlet and outlet, and a check valve to protect the pump and tubing. Depending on pump you may need an inverter box. Set up as above. Further Details below

Model Number	SOL-FZ1N-04FB
Flow Minute	7.5 Litres
Flow Hour	450 Litres
Minimum Water Temperature	0°C
Maximum Water Temperature	50°C
Strainer Supplied	No
Strainer Recommended	RF100 Single
Minimum Ambient Temperature	0°C
Maximum Ambient Temperature	40°C
Minimum Relative Humidity	45%
Maximum Relative Humidity	85%
Minimum Gas Flow/Minute	0.3 Litres
Maximum Gas Flow/Minute	0.4 Litres
Minimum Gas Flow/Hour	18 Litres
Maximum Gas Flow/Hour	24 Litres
Minimum Pressure	100kPa
Maximum Pressure	300kPa
Power Consumption	65 Watts
Wetted Parts	SS304, Nylon, Copper, PVC
Water Inlet	RA1/2"
Water Outlet	RA1.2:
Width X Depth X Height	175 x 320 x 142
Weight	6.9kg

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