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## blendergalf

Customized GaLF solutions built into your own applications, this is a stainless steel model. Suitable for hydrogen and gasoline.



## blendergalf

### ultrafine blendergalf nanobubble generator

- ✓ GaLF "inside" your own custom solution
- ✓ Excellent for producing Ozone UltraFine Bubbles
- ✓ Flexible to build into a range of applications
- ✓ One pass ozone operation
- ✓ Maximum recommended ozone concentration 5.0 mg/liter
- ✓ Highest ultrafine bubble concentration in the industry
- ✓ Suitable for use with Hydrogen applications

The blenderGaLF is for engineering and installation companies and researchers that want to implement the GaLF technology inside their own machines or equipment. The blenderbox is all stainless steel and can be supplied either in SUS304 or SUS316. The blenderGaLF is suitable to work with all gases including corrosive ozone and hydrogen. The blenderGaLF box uses the same technology as the high concentration GaLF series but is supplied excluding the pump and plc control mechanisms. You can work with the essential parts to configure your own unit.

The blenderGaLF is available in 3 sizes from 17 - 200 liters per minute. The mixing box is built from stainless steel, the blenderGaLF is suitable for the use with corrosive gasses. The blenderGaLF package consists of a mixing box, venturi and a nozzle. All electrical, pump, digital pressure sensors, various valves and piping have to be done locally. Contact us for a paper for more information

## blendergalf 017 sus 304 package specs

	Description	Metric	Imperial
1	Model name	blenderGaLF 017 SUS 304 package	blenderGaLF 017 SUS 304 package

2	Model number	FZ9A-017-P-304	FZ9A-017-P-304
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	Liquid	Metric	Imperial
3	Flow / minute	17 Liter	4.5 Gallon

4	Flow / hour	1.0 M3	36.0 CF
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5	water temperature minimum	0 °C	32 °F
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6	water temperature maximum	50 °C	122 °F
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7	Strainer availability and size	No 400 µm required	No 400 µm required
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8	Recommended inlet filter(s)	Small pump inlet filter series	Small pump inlet filter series
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	Ambient	Metric	Imperial
9	Ambient temperature minimum	0 °C	32 °F

10	Ambient temperature maximum	50 °C	122 °F
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11	Relative humidity minimum	0 %	0 %
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12	Relative humidity maximum	90 %	90 %
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	Gas	Metric	Imperial
13	Flow / minute	0.6 Liter	0.2 Gallon

14	Flow / minute	0.9 Liter	0.2 Gallon
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15	Flow / hour	36 Liter	9.5 Gallon
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16	Flow / hour	51 Liter	13 Gallon
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	Gas	Metric	Imperial
17	Pressure minimum 50 Hz	300 kPa	44 PSI
18	Pressure maximum 50 Hz	700 kPa	102 PSI
19	Pressure minimum 60 Hz	300 kPa	44 PSI
20	Pressure maximum 60 Hz	700 kPa	102 PSI
21	Gas quality	Ozone, Oxygen, Carbon Dioxide, Nitrogen or Ambient Air	Ozone, Oxygen, Carbon Dioxide, Nitrogen or Ambient Air
22	Gas remark	O3 ~ 100 kPa 0.85 lpm concentration: 2.5 - 5.0 mg/l	O3 ~ 100 kPa 0.85 lpm concentration: 2.5 - 5.0 mg/l
	Electrical	Metric	Imperial
23	Unit phase Ø voltage	For the pump 3Ø with frequency drive or single phase with frequency drive	For the pump 3Ø with frequency drive or single phase with frequency drive
24	Unit power consumption	Estimated power for pump 750 W	Estimated power for pump 750 W
25	Wetted parts		
26	Pump model		
27	Pump phase Ø voltage		
28	Pump phase Ø voltage 60Hz		
29	Pump pressure setting		
30	Control	Manual operation	Manual operation
Pump			
31	@option	Grundfos CRN1-15 A-FGJ-G-V-HQQV	
	Connections	Metric	Imperial
32	Water inlet	R 1/2"	R 1/2"
33	Water outlet	RC1/2	RC1/2

Connections		Metric	Imperial
34	Gas inlet	4 mm	4 mm
Dimensions & weight		Metric	Imperial
35	Dim. (w) x (d) x (h)	355 x 84 x 257 mm	14.0 x 3.3 x 10.1 inch
36	weight	15.1 Kg	33.3 lbs.
37	Shipping dim. (w)x(d)x(h)	60 x 50 x 40 cm	24 x 20 x 16 inch
38	Shipping weight	20 Kg	44 lbs.
Remarks			
39	Other remarks	<ul style="list-style-type: none"> <li>✓ Nanobubble Exhaust outlet RC1/2</li> <li>✓ Pressure gauge and other sensors RC1/4</li> <li>✓ Recommended pump: Grundfos CRN1-15-A-FGJ-G-V-HQQE</li> </ul>	

## blendergalf 017 sus 316 package specs

Description		Metric	Imperial
1	Model name	blenderGaLF 017 SUS 316 package	blenderGaLF 017 SUS 316 package
2	Model number	FZ9A-017P_SUS316	FZ9A-017P_SUS316
Connections		Metric	Imperial
3	Water inlet	R 1/2"	R 1/2"
4	Water outlet	RC1/2	RC1/2
5	Gas inlet	4 mm	4 mm
Remarks			
6	Other remarks	<ul style="list-style-type: none"><li>✓ Nanobubble Exhaust outlet RC1/2</li><li>✓ Pressure gauge and other sensors RC1/4</li><li>✓ Recommended pump: Grundfos CRN1-15-A-FGJ-G-V-HQQE</li></ul>	

## blendergalf 100 sus 304 package specs

Description		Metric	Imperial
1	Model name	blenderGaLF 100 SUS 304 package	blenderGaLF 100 SUS 304 package
2	Model number	FZ9A-100P-304	FZ9A-100P-304
Liquid		Metric	Imperial
3	Flow / minute	100 Liter	26 Gallon
4	Flow / hour	6.0 M3	211.9 CF
5	water temperature minimum	0 °C	32 °F
6	water temperature maximum	50 °C	122 °F
7	Strainer availability and size		
8	Recommended inlet filter(s)	Medium pump inlet filter series	Medium pump inlet filter series
Ambient		Metric	Imperial
9	Ambient temperature minimum	0 °C	32 °F
10	Ambient temperature maximum	50 °C	122 °F
11	Relative humidity minimum	0 %	0 %
12	Relative humidity maximum	90 %	90 %
Gas		Metric	Imperial
13	Flow / minute	5.0 Liter	1.3 Gallon
14	Flow / hour	300 Liter	79 Gallon
15	Gas quality	Ozone, Oxygen, Carbon Dioxide, Nitrogen or Ambient Air	Ozone, Oxygen, Carbon Dioxide, Nitrogen or Ambient Air



Gas		Metric	Imperial
16	Gas remark	O3 ~ 100 kPa 5 lpm concentration: 2.5 - 5.0 mg/l	O3 ~ 100 kPa 5 lpm concentration: 2.5 - 5.0 mg/l
Pump			
17	@option	Grundfos CRN5-16 A-G-A-V-HQQV	
Connections		Metric	Imperial
18	Water inlet	R 1"	R 1"
19	Water outlet	RC1	RC1
20	Gas inlet	6 mm	6 mm
Remarks			
21	Other remarks	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> UFB Exhaust outlet RC1/4</li> <li><input checked="" type="checkbox"/> Pressure gauge and other sensors RC1/4</li> </ul>	

## blendergalf 100 sus316 package specs

Description		Metric	Imperial
1	Model name	blenderGaLF 100 SUS316 package	blenderGaLF 100 SUS316 package
2	Model number		
Connections		Metric	Imperial
3	Water inlet	R 1"	R 1"
4	Water outlet	RC1"	RC1"
5	Gas inlet	6mm	6mm
Remarks			
6	Other remarks	✓ This model is the same as the SUS 304 version but has a higher metal grade SUS 316 and some parts SUS 316L	

## blendergalf 200 sus 304 package specs

Description		Metric	Imperial
1	Model name	blenderGaLF 200 SUS 304 package	blenderGaLF 200 SUS 304 package
2	Model number	FZ9A-200P_304	FZ9A-200P_304
Liquid		Metric	Imperial
3	Flow / minute	200 Liter	53 Gallon
4	Flow / hour	12 M3	424 CF
5	water temperature minimum	0 °C	32 °F
6	water temperature maximum	50 °C	122 °F
7	Strainer availability and size		
8	Recommended inlet filter(s)	Medium pump inlet filter series	Medium pump inlet filter series
Ambient		Metric	Imperial
9	Ambient temperature minimum	0 °C	32 °F
10	Ambient temperature maximum	50 °C	122 °F
11	Relative humidity minimum	0 %	0 %
12	Relative humidity maximum	90 %	90 %
Gas		Metric	Imperial
13	Flow / minute	10 Liter	2.6 Gallon
14	Flow / hour	600 Liter	159 Gallon
15	Gas quality	Ozone, Oxygen, Carbon Dioxide, Nitrogen or Ambient Air	Ozone, Oxygen, Carbon Dioxide, Nitrogen or Ambient Air

Gas	Metric	Imperial
16 Gas remark	O3 ~ 100 kPa 10 lpm concentration: 2.5 - 5.0 mg/l	O3 ~ 100 kPa 10 lpm concentration: 2.5 - 5.0 mg/l

Electrical	Metric	Imperial
17 Unit phase Ø voltage		
18 Unit power consumption		
19 Wetted parts	SUS304	SUS304
20 Pump model		
21 Pump phase Ø voltage		
22 Pump motor 60Hz	5500 Watt	7.4 hp
23 Pump head 60Hz	80 Meter	262 ft
24 Pump phase Ø voltage 60Hz		
25 Pump pressure setting		
26 Control		

Pump		
27 @option	Grundfos CRN10-8 A-FGJ-G-V-HQQV	

Connections	Metric	Imperial
28 Water inlet	R 1"	R 1"
29 Water outlet	RC1	RC1
30 Gas inlet	6 mm	6 mm

Dimensions & weight	Metric	Imperial
31 Dim. (w) x (d) x (h)	750 x 168 x 569 mm	29.5 x 6.6 x 22.4 inch
32 weight	44 Kg	97.0 lbs.
33 Shipping dim. (w)x(d)x(h)	65 x 110 x 70 cm	26 x 43 x 28 inch
34 Shipping weight	60 Kg	132 lbs.

## Remarks

35 Other remarks

- ✓ Recommended pump: Grundfos CRN 10-8 A-FGJ-G-V-HQQV 60 Hz 200V 5.5 KW 800kPa@200LPM
- ✓ Nanobubble Exhaust outlet RC1/4
- ✓ Pressure gauge and other sensors RC1/4

## blendergalf 200 sus 316 package specs

Description		Metric	Imperial
1	Model name	blenderGaLF 200 SUS 316 package	blenderGaLF 200 SUS 316 package
2	Model number	FZ9A-200P_316	FZ9A-200P_316
Connections		Metric	Imperial
3	Water inlet	R 1"	R 1"
4	Water outlet	RC1	RC1
5	Gas inlet	6 mm	6 mm
Remarks			
6	Other remarks	<ul style="list-style-type: none"> <li>✓ Recommended pump: Grundfos CRN 10-8 A-FGJ-G-V-HQQV 60 Hz 200V 5.5 KW 800kPa@200LPM</li> <li>✓ Nanobubble Exhaust outlet RC1/4</li> <li>✓ Pressure gauge and other sensors RC1/4</li> </ul>	