

GAS MIXER MED-MG

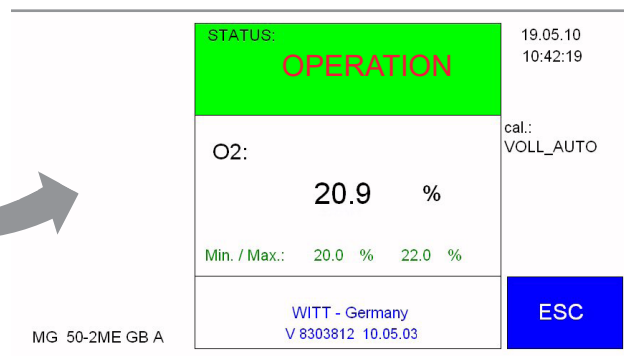
for synthetic air



- MED-MG 50-2ME GB A
- MED-MG 100-2ME GB A
- MED-MG 200-2ME GB A
- MED-MG 500-2ME GB A

Stationary gas mixing system specifically for the generation of synthetic medicinal air (according to EN ISO 7396-1).

Medical device class IIb, CE marked according to Directive 93/42/EEC.



High process reliability

- highest integrity to supply safety by independent construction of all relevant safety components
- 2 independent integrated Oxygen Analyzers for permanent control and documentation of the gas mixtures
- self monitoring of analyzers additional monitoring via alarm module
- monitoring of the gas supply with pressure transmitter
- too low inlet pressures triggers an optical alarm and shut down the system
- lockable transparent door and back panel for protection of settings
- independent of pressure fluctuations in the gas supply
- intermittent gas mixture withdrawal possible
- USB connection for file transfer
- Ethernet connection for network integration
- triggering for solenoid valves provided by customer

Options

- additional heater for low ambient temperatures
- fully automatic calibration
- moisture analyzer

Capacity range from 0 to approx. 23 837SCFH.
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Note:

System only works with appropriate buffer tank:

Type	MED-Receiver	Order-No.
MED-MG 50-2ME GB A	≥ 100 l	upon request
MED-MG 100-2ME GB A	≥ 250 l	
MED-MG 200-2ME GB A	≥ 500 l	
MED-MG 500-2ME GB A	≥ 2 000 l	

Easy operation

- simple to operate via touch-screen
- pre-set gas blend (adjustable inside gas mixer)
- gas mixture withdrawal possible from zero to the maximum flow capacity

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Type	MED-MG 50/100/200/500 -2ME GB A	Logging	analogue outlet 4-20 mA or 0-10 V
Gases	Nitrogen and Oxygen	Interface	USB port, Ethernet for data storage and evaluation of measuring data on external medium
Mixing range	20.9% Oxygen (adjustable)	Housing	steel, coated, IP55
Pressure settings	see tables ☐ recommended settings for standard connections at flow velocity of ≤ 56 [mph]	Weight	approx. 132 kg (MED-MG 50), approx. 135 kg (MED-MG 100), approx. 145 kg (MED-MG 200), approx. 260 kg (MED-MG 500)
Inlet pressure differential between the gases	max. 44 PSI	Dimensions (HxWxD)	approx. 68.11 x 25.59 x 25.20 inches (without connections)
Mixture output (air)	see tables	Noise level	≤ 70 dBA
Temperature (gas)	32°F to 113°F	Voltage	230 V AC, 127 V AC, 110 V AC
Temperature (environment)	41°F to 113°F	Power consumption	230 V AC, 0.6 A
Temperature differential of inlet gases	max. 59°F	Approvals	Certified Full Quality Assurance System according to Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4 CE-marked according to: - PED 2014/68/EU - Medical Devices Directive 93/42/EEC
Max. humidity	≤ 50% at 104°F ≤ 90% at 68°F		
System accuracy	±0.8% abs. (according to DIN EN ISO 7396-1/2013)		
Analyzing principle	paramagnetic sensor, measuring range 0 – 30% O ₂ , long lifetime		
Alarm signals	min. / max. threshold value with 2 floating contacts		

Gas connections

inlets

O₂
N₂

outlet

	MED-MG 50	MED-MG 100	MED-MG 200	MED-MG 500
	G 1 M, WITTFIX for pipe OD 0.87 inches			
	G 1 M, WITTFIX for pipe OD 0.87 inches			flange DN 32 / PN 40
	G 1 M, WITTFIX for pipe OD 0.87 inches			flange DN 50 / PN 40

Flow MED-MG 50 (in SCFH) in relation to air

min. receiver pressure in PSIG
(max. receiver pressure 7 PSI higher)

	36	51	65	80	94	109	123
58	-	-	-	-	-	-	-
73	671	-	-	-	☐ ≤ 56 [mph]	-	-
87	953	777	-	-	-	-	-
102	1165	1059	812	-	-	-	-
116	1448	1342	1130	918	-	-	-
131	1624	1589	1448	1236	953	-	-
145	1801	1766	1730	1589	1342	989	-
160	2013	2013	2013	2013	1942	1836	1624
174	2190	2190	2190	2190	2154	2084	1942
189	2366	2366	2366	2366	2366	2295	2190

Flow MED-MG 100 (in SCFH) in relation to air

min. receiver pressure in PSIG
(max. receiver pressure 7 PSI higher)

	36	51	65	80	94	109	123
58	-	-	-	-	-	-	-
73	1377	-	-	-	☐ ≤ 56 [mph]	-	-
87	1978	1695	-	-	-	-	-
102	2401	2225	1836	-	-	-	-
116	2860	2649	2437	2084	-	-	-
131	3178	3108	2896	2613	2119	-	-
145	3637	3567	3496	3284	2896	2401	-
160	4061	4026	3991	3814	3531	3214	2543
174	4450	4414	4344	4238	4061	3673	3249
189	4873	4838	4803	4732	4626	4414	3991

Flow MED-MG 200 (in SCFH) in relation to air

min. receiver pressure in PSIG
(max. receiver pressure 7 PSI higher)

	36	51	65	80	94	109	123	138
58	-	-	-	-	-	-	-	-
73	2578	-	-	-	-	☐ ≤ 56 [mph]	-	-
87	3531	2966	-	-	-	-	-	-
102	4238	3779	3143	-	-	-	-	-
116	4944	4556	4061	3284	-	-	-	-
131	5721	5438	5015	4414	3602	-	-	-
145	6427	6215	5827	5368	4662	3708	-	-
160	7240	7063	6745	6357	5792	5085	4061	-
174	7875	7699	7451	7098	6533	6003	5191	3496
189	8617	8440	8264	7910	7487	6992	6392	4238

Flow MED-MG 500 (in SCFH) in relation to air

min. receiver pressure in PSIG
(max. receiver pressure 7 PSI higher)

	36	51	65	80	94	109	123	138
58	-	-	-	-	-	-	-	-
73	8476	-	-	-	-	☐ ≤ 56 [mph]	-	-
87	10948	7769	-	-	-	-	-	-
102	13066	12713	9182	-	-	-	-	-
116	14832	14832	13420	10241	-	-	-	-
131	15892	15892	15892	15009	12713	-	-	-
145	18187	15187	17481	17304	15538	13420	-	-
160	19953	19953	19953	19246	18717	15362	14479	-
174	21895	21895	21895	20836	19953	19670	16315	15291
189	23837	23837	23837	23343	22707	21824	18505	17304