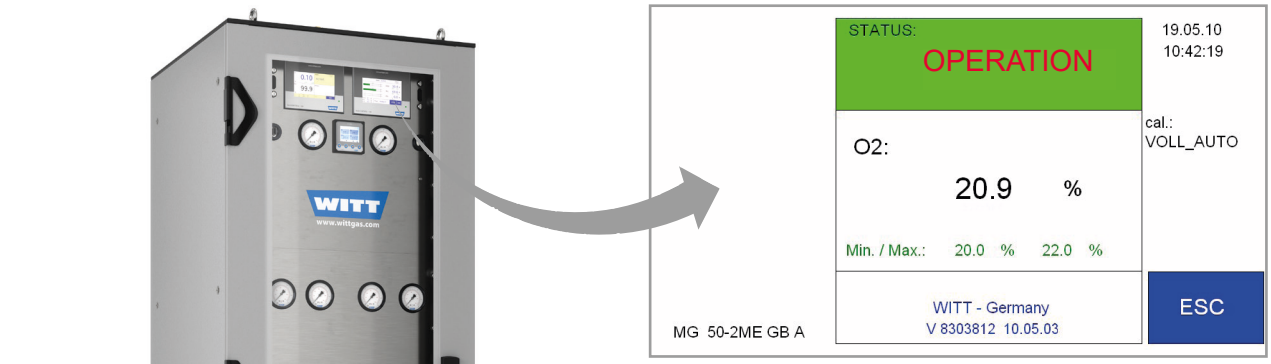
GAS MIXER MED-MG
for synthetic air

MED-MG 50-2ME GB A
MED-MG100-2ME GB A
MED-MG200-2ME GB A
MED-MG500-2ME 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*.



Capacity range from 0 to approx. 675 Nm³/h.
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	on request
MED-MG 100-2ME GB A	≥ 250 l	
MED-MG 200-2ME GB A	≥ 500 l	
MED-MG 500-2ME GB A	≥ 2000 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

High process reliability
- highest integrity to supply safety by independent construction of all relevant safety components
- 2 independent integrated Oxygen Analysers for permanent control and documentation of the gas mixtures
- self monitoring of analysers 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 analyser

* In accordance with the transitional provisions of Regulation (EU) 2017/745, Article 120, as amended by Regulation (EU) 2023/607, the validity of the certification according to 93/42/EEC including the corresponding CE marking is extended until 31 December 2028 at the latest. If required, we can send you a letter of confirmation from the responsible notified body.

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www.wittgas.com

Type	MED-MG 50/100/200/500 -2ME GB A
Gases	Nitrogen and Oxygen
Mixing range	20.9% Oxygen (adjustable)
Pressure settings	see tables □ recommended settings for standard connections at flow velocity of ≤ 25 [m/s]
Inlet pressure differential between the gases	max. 3 bar
Mixture output (air)	see tables
Temperature (gas)	0 °C to 45 °C (32 °F to 113 °F)
Temperature (environment)	5 °C to 45 °C (41 °F to 113 °F)
Temperature differential of inlet gases	max. 15 °C (59 °F)
Max. humidity	≤ 50% at 40 °C (at 104 °F) ≤ 90% at 20 °C (at 68 °F)
System accuracy	±0.8% abs. (according to DIN EN ISO 7396-1/2013)
Analysing principle	paramagnetic sensor, measuring range 0 – 30% O_2, long lifetime
Alarm signals	min. / max. threshold value with 2 floating contacts

Logging	analogue outlet 4-20 mA or 0-10 V
Interface	USB port, Ethernet for data storage and evaluation of measuring data on external medium
Housing	steel, coated, IP55
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)
Dimensions (HxWxD)	approx. 1730 x 650 x 640 mm (68.11 x 25.59 x 25.20 inches) (without connections)
Noise level	≤ 70 dBA
Voltage	230 V AC, 127 V AC, 110 V AC
Power consumption	230 V AC, 0.6 A
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*

Gas connections

	MED-MG 50	MED-MG 100	MED-MG 200	MED-MG 500
inlets O_2	G 1 M, WITTFIX for pipe OD 22 mm			
inlets N_2	G 1 M, WITTFIX for pipe OD 22 mm			flange DN 32 / PN 40
outlet	G 1 M, WITTFIX for pipe OD 22 mm			flange DN 50 / PN 40

Flow **MED-MG 50** (in Nm³/h) in relation to air

min. inlet pressure in barg (max. 20 bar) \ min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)	2.5	3.5	4.5	5.5	6.5	7.5	8.5
4	-	-	-	-	-	-	-
5	19	-	-	-	□ ≤ 25 [m/s]		
6	27	22	-	-	-	-	-
7	33	30	23	-	-	-	-
8	41	38	32	26	-	-	-
9	46	45	41	35	27	-	-
10	51	50	49	45	38	28	-
11	57	57	57	57	55	52	46
12	62	62	62	62	61	59	55
13	67	67	67	67	67	65	62

Flow **MED-MG 100** (in Nm³/h) in relation to air

min. inlet pressure in barg (max. 20 bar) \ min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)	2.5	3.5	4.5	5.5	6.5	7.5	8.5
4	-	-	-	-	-	-	-
5	39	-	-	-	□ ≤ 25 [m/s]		
6	56	48	-	-	-	-	-
7	68	63	52	-	-	-	-
8	81	75	69	59	-	-	-
9	90	88	82	74	60	-	-
10	103	101	99	93	82	68	-
11	115	114	113	108	100	91	72
12	126	125	123	120	115	104	92
13	138	137	136	134	131	125	113

Flow **MED-MG 200** (in Nm³/h) in relation to air

min. inlet pressure in barg (max. 20 bar) \ min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
4	-	-	-	-	-	-	-	-
5	73	-	-	-	-	□ ≤ 25 [m/s]		
6	100	84	-	-	-	-	-	-
7	120	107	89	-	-	-	-	-
8	140	129	115	93	-	-	-	-
9	162	154	142	125	102	-	-	-
10	182	176	165	152	132	105	-	-
11	205	200	191	180	164	144	115	-
12	223	218	211	201	185	170	147	99
13	244	239	234	224	212	198	181	120

Flow **MED-MG 500** (in Nm³/h) in relation to air

min. inlet pressure in barg (max. 20 bar) \ min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
4	-	-	-	-	-	-	-	-
5	240	-	-	-	-	□ ≤ 25 [m/s]		
6	310	220	-	-	-	-	-	-
7	370	360	260	-	-	-	-	-
8	420	420	380	290	-	-	-	-
9	450	450	450	425	360	-	-	-
10	515	515	495	490	440	380	-	-
11	565	565	565	545	530	435	410	
12	620	620	620	590	565	557	462	433
13	675	675	675	661	643	618	524	490

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