

**GAS MIXERS**

www.wittgas.com

**MG 50/100-2 ECO**



**MG 50/100-2 ECO EEx**



Gas mixing systems for 2 defined gases, designed for a variety of industrial applications with **FIXED 2-component gas mixtures** in the mixing range of 0-100%.

Capacity range from 0 to approx. 160 Nm<sup>3</sup>/h. For the exact pressure and flow capacity ratios, please see the technical data overleaf.

**Note:**  
System only works with sufficient buffer volume (100 to 250 litres depending on gas mixing capacity).

**Benefits**

- easy operation; no special skills required
- protection of fixed mixing ratio
- filter in the gas inlets protect the mixer against dirt contamination
- non-return valves prevent dangerous reverse gas flow in the gas supply
- gas mixture withdrawal possible from zero to the maximum flow capacity
- compact design
- low maintenance

**High process reliability**

- independent of pressure fluctuations in the gas supply
- robust stainless steel housing

**Options**

- for flammable gases available as EEx-version with separate control cabinet
- monitoring of the gas supply by means of pressure switches; too low an inlet pressure triggers an optical alarm (audible optional) and switches a potential free contact (e.g. to shut down machinery to avoid quality problems)
- gas mixer mounted on gas mixture buffer tank for a more convenient installation

**Other models, options and accessories available on request.**

**Please identify the individual gases at the time of enquiring!**

Product Information

**GAS MIXERS**

<b>Type</b>	MG 50/100-2 ECO; MG 50/100-2 ECO EEx
<b>Gases</b>	all technical gases (excluding toxic or corrosive gases)
<b>Mixing range</b>	0-100%
<b>Pressure settings</b>	see tables
<b>Inlet pressure differential between the gases</b>	max. 3 bar
<b>Mixture output (air)</b>	see tables
<b>Mixing precision</b>	better than ±1% abs.
<b>Gas connections MG 50</b>	
inlets	G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
outlet at mixer	G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
outlet at receiver	WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm
<b>Gas connections MG 100</b>	
inlets	G 1 RH with cone, soldering nipple for pipe OD 22 mm
outlet at mixer	G 1 RH with cone, soldering nipple for pipe OD 22 mm
outlet at receiver	WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm
<b>Housing</b>	stainless steel
<b>Weight MG 50</b>	approx. 20 kg, without receiver
<b>Weight MG 100</b>	approx. 27 kg, without receiver
<b>Dimensions (HxWxD)</b>	
mixer MG 50	approx. 245 x 380 x 285 mm (9.6 x 15 x 11.2 inch) (without connections and receiver)
mixer MG 100	approx. 245 x 530 x 335 mm (9.6 x 20.9 x 13.2 inch) (without connections)
separate control cabinet (EEx)	approx. 212 x 198 x 160 mm (8.3 x 7.8 x 6.3 inch) (without connections)
<b>Voltage</b>	230 V AC, 110 V AC or 24 V DC
<b>Power consumption</b>	230 V AC, 0.07 A
<b>Approvals</b>	Company certified according to ISO 9001:2000 and ISO 14001 CE-marked according to: - EMC 89/336/EWG - Low Voltage Directive 73/23/EWG - PED 97/23/EG - ATEX 95 Directive 94/9/EG

Technical Data

**Flow MG 50 (in Nm<sup>3</sup>/h) in relation to air**  
min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)

	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
4	21	-	-	-	-	-	-	-	-	-
5	27	24	-	-	-	-	-	-	-	-
6	32	32	28	-	-	-	-	-	-	-
7	37	37	36	31	-	-	-	-	-	-
8	43	43	43	40	33	-	-	-	-	-
9	48	48	48	47	43	36	-	-	-	-
10	54	54	54	53	51	46	38	-	-	-
11	59	59	59	59	58	55	49	40	-	-
12	65	65	65	65	64	62	59	52	42	-
13	70	70	70	70	70	69	67	62	55	44

**Flow MG 100 (in Nm<sup>3</sup>/h) in relation to air**  
min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)

	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
4	47	-	-	-	-	-	-	-	-
5	64	58	-	-	-	-	-	-	-
6	78	75	68	-	-	-	-	-	-
7	94	93	88	76	-	-	-	-	-
8	108	107	105	98	84	-	-	-	-
9	124	122	121	118	108	90	-	-	-
10	138	138	136	134	128	116	97	-	-
11	152	152	152	149	145	136	124	102	-
12	167	167	167	167	164	158	149	133	112

C5 subject to change