



MG 50-2 ECO



MG 50-3 ECO Ex

**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. 167 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 Ex-version with separate control cabinet
- alarm module NXT+: integrated inlet pressure monitoring with digital display for pressure (with analog pressure transmitters) plus optical alarm, adjustable alarm limits, obligation of acknowledgement, protection of alarms, interfaces for controlling external alarms etc.
- gas mixer mounted on gas mixture buffer tank for a more convenient installation

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

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

# GAS MIXER MG 50/100-ECO



<b>Type</b>	MG 50/100-2 ECO; MG 50/100-2 ECO Ex
<b>Gases</b>	all technical gases (excluding toxic or corrosive gases)
<b>Mixing range</b>	0–100%
<b>Pressure setting</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 $\pm 1\%$ abs.
<b>Gas connections MG 50</b>	
<b>inlets</b>	G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
<b>outlet at mixer</b>	G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
<b>outlet at receiver</b>	WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm
<b>Gas connections MG 100</b>	
<b>inlets</b>	G 1 RH with cone, soldering nipple for pipe OD 22 mm
<b>outlet at mixer</b>	G 1 RH with cone, soldering nipple for pipe OD 22 mm
<b>outlet at receiver</b>	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>	
<b>mixer MG 50</b>	approx. 245 x 380 x 285 mm (9.65 x 14.96 x 11.22 inch) (without connections and receiver)
<b>mixer MG 100</b>	approx. 245 x 530 x 335 mm (9.65 x 20.87 x 13.19 inch) (without connections and receiver)
<b>separate control cabinet (Ex)</b>	approx. 212 x 198 x 160 mm (8.35 x 7.79 x 6.29 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 CE-marked according to: - EMC 2004/108/EC - Low Voltage Directive 2006/95/EC - PED 97/23/EC - ATEX 95 Directive 94/9/EC

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
min. inlet pressure in barg (max. 20 bar)	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	
min. inlet pressure in barg (max. 20 bar)	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	

MG4 - B01/E4 subject to change