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 Nm³/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

Type
MG 50/100-2 ECO; MG 50/100-2 ECO Ex

Gases
all technical gases (excluding toxic or corrosive gases)

Mixing range
0–100%

Pressure setting
see tables

Inlet pressure differential between the gases
max. 3 bar

Mixture output (air)
see tables

Mixing precision
better than ±1% abs.

Gas connections MG 50
inlets
G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
G 1/2 RH with cone, soldering nipple for pipe OD 15 mm
WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm

Gas connections MG 50
outlet at mixer
outlet at receiver

Gas connections MG 100
inlets
G 1 RH with cone, soldering nipple for pipe OD 22 mm
G 1 RH with cone, soldering nipple for pipe OD 22 mm
WITTFIX-Pipe Couplers for pipe OD 22x1.5 mm

Gas connections MG 100
outlet at mixer
outlet at receiver

Housing
stainless steel

Weight MG 50
approx. 20 kg without receiver

Weight MG 100
approx. 27 kg without receiver

Dimensions (HxWxD)
mixer MG 50
approx. 245 x 380 x 285 mm (9.65 x 14.96 x 11.22 inch)
(without connections and receiver)
mixer MG 100
approx. 245 x 530 x 335 mm (9.65 x 20.87 x 13.19 inch)
(without connections and receiver)
separate control cabinet (Ex)
approx. 212 x 198 x 160 mm (8.35 x 7.79 x 6.29 inch)
(without connections)

Voltage
230 V AC, 110 V AC or 24 V DC

Power consumption
230 V AC, 0.07 A

Approvals
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 94 Directive 94/9/EC

<table>
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<th>Flow MG 50 (in Nm³/h) in relation to air</th>
<th>min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)</th>
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<th>Flow MG 100 (in Nm³/h) in relation to air</th>
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