

**GAS MIXERS**

www.wittgas.com

**KM 100/200-2M**



**KM 100-2M**

**KM 100/200-3M**



**KM 100-3M**

**Gas mixing systems for 2 or 3 defined gases especially for flow packing machines or other continuous packaging processes in the food industry.**

Capacity range up to approx. 684 SCFH.  
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

**Easy operation**

- a proportional mixing valve (-2) or three single mixing valves (-3), each with a control knob and %-scale, provide infinitely variable mixture settings
- the flow of the gas mixture is controlled by a metering valve combined with a flow meter

**Constant quality**

- independent of pressure fluctuations in the gas supply
- independent of packing speed (in permitted range)

**High process reliability**

- 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 shutdown machinery to avoid quality problems)
- lockable transparent door for protection of settings

**Maximum hygiene**

- splash-proof and robust stainless steel housing
- smooth and easy to clean surface

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

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

**GAS MIXERS**

<b>Type</b>	KM 100/200-2M; KM 100/200-3M
<b>Gases</b>	N <sub>2</sub> , CO <sub>2</sub> , O <sub>2</sub> not for flammable gases!
<b>Mixing range</b>	0-100%
<b>Pressure settings</b>	see tables
<b>Inlet pressure differential between the gases</b>	max. 43.5 psi
<b>Mixture output (air)</b>	see tables min. mixture output = 1/5 of the max. mixture output
<b>Setting accuracy</b>	±2% abs. (scale 0-100%)
<b>Mixing precision</b>	better than ±1% abs.
<b>Gas connections inlets outlet</b>	G 3/8 RH with cone, hose nipple 8 mm G 3/8 RH with cone, hose nipple 8 mm
<b>Housing</b>	stainless steel, splash proof
<b>Weight</b>	approx. 37.5 lb (-2), approx. 55.1 lb (-3)
<b>Dimensions (HxWxD)</b>	approx. 8.7 x 12.8 x 13.6 inch (without connections)
<b>Voltage</b>	230 V AC, 110 V AC or 24 V DC
<b>Power consumption</b>	230 V AC, 0.02 A 110 V AC, 0.04 A 24 V DC, 0.06 A
<b>Approvals</b>	Company certified according to ISO 9001:2000 and ISO 14001 CE-marked according to: - Electromagnetic compatibility Directive 2004/108/EC - Low Voltage Directive 2006/95/EC

Technical Data

Flow <b>KM 100</b> (in SCFH) in relation to air		outlet pressure in psig							
		7.2	14.5	21.8	29.0	36.3	43.5	50.8	58.0
min. inlet pressure in psig (max. 188.5 psi)	29.0	127	-	Note: Reduced mixture output in case of higher outlet pressures					
	43.5	-	170						
	58.0	-	-	212	-	-	-	-	-
	72.5	-	-	-	233	-	-	-	-
	87.0	-	-	-	-	254	-	-	-
	101.5	-	-	-	-	-	275	-	-
	116.0	-	-	-	-	-	-	297	-
	130.5	-	-	-	-	-	-	-	318

Flow <b>KM 200</b> (in SCFH) in relation to air		outlet pressure in psig							
		7.2	14.5	21.8	29.0	36.3	43.5	50.8	58.0
min. inlet pressure in psig (max. 188.5 psi)	29.0	246	-	Note: Reduced mixture output in case of higher outlet pressures					
	43.5	-	295						
	58.0	-	-	356	-	-	-	-	-
	72.5	-	-	-	417	-	-	-	-
	87.0	-	-	-	-	458	-	-	-
	101.5	-	-	-	-	-	528	-	-
	116.0	-	-	-	-	-	-	610	-
	130.5	-	-	-	-	-	-	-	684

C9 subject to change