

GAS MIXERS

KM 300/600-2M



KM 300-2M

KM 300/600-3M



KM 300-3M

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. 717 NI/min.
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 shut down 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

www.wittgas.com

Type	KM 300/600-2M; KM 300/600-3M
Gases	N ₂ , CO ₂ , O ₂ not for flammable gases!
Mixing range	0 – 100%
Pressure settings	see tables
Inlet pressure differential between the gases	max. 3 bar
Mixture output (air)	see tables min. mixture output = 1/5 of the max. mixture output
Setting accuracy	±2% abs. (scale 0 – 100%)
Mixing precision	better than ±1% abs.
Gas connections	
inlets	G 1/2 RH with cone, hose nipple 11 mm
outlet	G 1/2 RH with cone, hose nipple 11 mm
Housing	stainless steel, splash proof
Weight	approx. 30 kg (-2), approx. 35 kg (-3)
Dimensions (HxWxD)	approx. 330 x 485 x 500 mm (12.99 x 19.09 x 19.68 inch) (without connections)
Voltage	230 V AC, 110 V AC or 24 V DC
Power consumption	230 V AC, 0.02 A 110 V AC, 0.04 A 24 V DC, 0.06 A
Approvals	Company certified according to ISO 9001:2000, ISO 14001 and ISO 22000 CE-marked according to: - EMC 2004/108/EC - Low Voltage Directive 2006/95/EC

Technical Data

Flow KM 300 (in NI/min) in relation to air	
outlet pressure in barg	
	0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0
min. inlet pressure in barg (max. 13 bar)	2 133 -
	3 - 193
	4 - - 300 - - - -
	5 - - - 334 - - - -
	6 - - - - 365 - - -
	7 - - - - - 395 - -
	8 - - - - - - 421 -
	9 - - - - - - - 447

Note:
Reduced mixture output in case of higher outlet pressures

Flow KM 600 (in NI/min) in relation to air	
outlet pressure in barg	
	0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0
min. inlet pressure in barg (max. 13 bar)	2 151 -
	3 - 246
	4 - - 344 - - - -
	5 - - - 423 - - - -
	6 - - - - 511 - - -
	7 - - - - - 587 - -
	8 - - - - - - 658 -
	9 - - - - - - - 717

Note:
Reduced mixture output in case of higher outlet pressures

A01/FO subject to change