

KM 100/200-2M / KM 100/200-3M



-2M



-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. 339 NL/min.
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Benefits

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

- 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.
- 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 upon request.

Please identify the individual gases at the time of enquiring!

Technical data overleaf



KM 100/200-2M / KM 100/200-3M

Technical Data	
Type	KM 100/200-2M; KM 100/200-3M
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 3/8 RH with cone, hose nipple 8 mm outlet G 3/8 RH with cone, hose nipple 8 mm
Housing	stainless steel, splash proof
Weight	approx. 17 kg (-2), approx. 25 kg (-3)
Dimensions (HxWxD)	approx. 222 x 325 x 345 mm (8.74 x 12.80 x 13.58 inches) (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 and ISO 22000 CE-marked according to: - EMC 2004/108/EC - Low Voltage Directive 2006/95/EC for food-grade gases according to: - Regulation (EC) No 1935/2004

Flow KM 100 (in NI/min) in relation to CO ₂ 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. 1.3 bar)	2	70	-	-	-	-	-	-	-
	3	-	86	-	-	-	-	-	-
	4	-	-	100	-	-	-	-	-
	5	-	-	-	110	-	-	-	-
	6	-	-	-	-	120	-	-	-
	7	-	-	-	-	-	130	-	-
	8	-	-	-	-	-	-	140	-
	9	-	-	-	-	-	-	-	150

Note:
Reduced mixture output in case of higher outlet pressures

Flow KM 200 (in NI/min) in relation to CO ₂ 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. 1.3 bar)	2	116	-	-	-	-	-	-	-
	3	-	139	-	-	-	-	-	-
	4	-	-	168	-	-	-	-	-
	5	-	-	-	197	-	-	-	-
	6	-	-	-	-	216	-	-	-
	7	-	-	-	-	-	249	-	-
	8	-	-	-	-	-	-	266	-
	9	-	-	-	-	-	-	-	283

Note:
Reduced mixture output in case of higher outlet pressures