



-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. 900 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

- alarm module AM3: 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!

GAS MIXER KM 300/600-M



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 (CO ₂)	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 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 2014/30/EU - Low Voltage Directive 2014/35/EU for food-grade gases according to: - Regulation (EC) No 1935/2004 Designed for Oxygen Service in accordance with EIGA 13/20 and CGA G-4.4: Oxygen Pipeline and Piping Systems Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Service

Flow KM 300 (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	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
min. inlet pressure in barg (max. 13 bar)	2	100	–	–	–	–	–	–	–	–	–	–	–	Note: Reduced mixture output in case of higher outlet pressures					
	3	194	173	127	–	–	–	–	–	–	–	–	–						
	4	270	260	240	205	150	–	–	–	–	–	–	–						
	5	340	340	330	305	280	230	175	–	–	–	–	–	–	–	–	–	–	–
	6	420	420	410	395	380	350	300	260	185	–	–	–	–	–	–	–	–	–
	7	490	490	485	475	465	450	425	385	340	290	210	–	–	–	–	–	–	–
	8	570	570	565	555	550	530	515	495	460	430	370	315	205	–	–	–	–	–
	9	640	635	633	630	625	620	605	585	555	535	500	460	400	325	235	–	–	–
	10	725	715	710	705	700	695	685	670	655	630	605	580	530	480	430	350	250	–
	11	785	782	779	777	775	770	760	720	740	715	700	685	645	600	575	510	450	370
	12	840	840	840	840	840	840	830	820	805	795	780	770	740	715	685	650	595	545
	13	900	900	900	900	900	900	895	890	885	875	855	845	830	805	790	750	705	670

Flow KM 600 (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	4.5	5.0	5.5	6.0
min. inlet pressure in barg (max. 13 bar)	2	145	–	–	–	–	–	–	–	Note: Reduced mixture output in case of higher outlet pressures			
	3	–	193	–	–	–	–	–	–				
	4	–	–	290	–	–	–	–	–				
	5	–	–	–	349	–	–	–	–	–	–	–	–
	6	–	–	–	–	450	–	–	–	–	–	–	–
	7	–	–	–	–	–	514	–	–	–	–	–	–
	8	–	–	–	–	–	–	578	–	–	–	–	–
	9	–	–	–	–	–	–	–	643	–	–	–	–
	10	–	–	–	–	–	–	–	–	707	–	–	–
	11	–	–	–	–	–	–	–	–	–	772	–	–
	12	–	–	–	–	–	–	–	–	–	–	836	–
	13	–	–	–	–	–	–	–	–	–	–	–	900