

GAS MIXERS

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KM 20/30/60/100-2ME /-3ME



KM 100-2ME GB

KM 20/30/60/100-2ME /-3ME EEX



KM 100-3ME EEx

Gas mixing systems for 2 or 3 defined gases, designed for a variety of industrial applications, particularly for all areas with sharply fluctuating mixed gas extraction quantities.

Capacity range from 0 to approx. 500 NI/min.
For the exact pressure and flow capacity ratios,
please see the technical data overleaf.

Note:

System only works with sufficient buffer volume
(20 to 100 litres depending on gas mixing capacity).

Easy operation

- a proportional mixing valve (-2ME) or three single mixing valves (-3ME), each with a control knob and %-scale, provide infinitely variable mixture settings
- gas mixture withdrawal possible from zero to the maximum flow capacity

High process reliability

- independent of pressure fluctuations in the gas supply
- intermittent gas mixture withdrawal possible
- lockable transparent door for protection of settings
- splash-proof and robust stainless steel housing

Options

- for flammable gases available as EEx-version with separate control cabinet
- 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)
- integrated gas analysis for the monitoring/control and documentation of the gas mixture production
- gas mixer mounted on gas mixture buffer tank for a more convenient installation

Other models, options and accessories available on request.

Please identify the individual gases at the time of enquiring!

Product Information

H9 subject to change

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Type	KM 20/30/60/100-2ME /-3ME; KM 20/30/60/100-2ME /-3ME EEx
Gases	all technical gases (excluding toxic or corrosive gases)
Mixing range	0-25% (KM 60/100-ME only) or 0-100%
Pressure settings	see tables
Inlet pressure differential between the gases	max. 3 bar
Mixture output (air)	see tables
Setting accuracy	±1% abs. (scale 0-25%), ±2% abs. (scale 0-100%)
Mixing precision	better than ±1% abs.
Gas connections	
inlets	G 3/8 RH with cone, soldering nipple for pipe OD 10 mm
outlet at mixer	G 3/8 RH with cone, soldering nipple for pipe OD 10 mm
outlet at receiver	WITT-Pipe Couplers for pipe OD 12 mm
for fuel gas connection and outlet at mixer	G 3/8 LH with cone, soldering nipple for pipe OD 10 mm
Housing	stainless steel, splash proof (not EEx-version)
Weight	approx. 18 kg (-2ME), approx. 26 kg (-3ME) without receiver
Dimensions (HxWxD)	
mixer	approx. 225 x 325 x 345 mm (9 x 13 x 13.5 inch) (without connections and receiver)
separate control cabinet (EEx)	approx. 212 x 198 x 160 mm (8.3 x 7.8 x 6.3 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 9001:2000 and ISO 14001 CE-marked according to: - EMC 2004/108/EC - Low Voltage Directive 2006/95/EC - PED 97/23/EC - ATEX 95 Directive 94/9/EC

Flow **KM 20** (in NI/min) in relation to air
min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)

	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
4	21	-	-	-	-	-	-	-	-	-
5	27	25	-	-	-	-	-	-	-	-
6	33	32	28	-	-	-	-	-	-	-
7	38	38	37	31	-	-	-	-	-	-
8	44	44	44	41	34	-	-	-	-	-
9	50	50	50	48	44	37	-	-	-	-
10	55	55	55	55	53	48	39	-	-	-
11	61	61	61	61	60	56	51	41	-	-
12	66	66	66	66	66	64	60	54	44	-
13	72	72	72	72	72	71	68	64	56	46

Flow **KM 30** (in NI/min) in relation to air
min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)

	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
4	40	-	-	-	-	-	-	-	-	-
5	52	47	-	-	-	-	-	-	-	-
6	62	61	54	-	-	-	-	-	-	-
7	73	73	70	60	-	-	-	-	-	-
8	83	83	83	77	65	-	-	-	-	-
9	94	94	94	91	84	70	-	-	-	-
10	104	104	104	104	99	90	74	-	-	-
11	115	115	115	115	113	107	96	78	-	-
12	125	125	125	125	125	121	114	101	83	-
13	136	136	136	136	136	134	129	120	107	86

Flow **KM 60** (in NI/min) in relation to air
min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)

	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
4	86	-	-	-	-	-	-	-	-	-
5	111	102	-	-	-	-	-	-	-	-
6	133	131	115	-	-	-	-	-	-	-
7	155	155	149	127	-	-	-	-	-	-
8	178	178	176	165	138	-	-	-	-	-
9	200	200	200	195	179	149	-	-	-	-
10	222	222	222	221	212	192	158	-	-	-
11	244	244	244	244	240	227	205	167	-	-
12	266	266	266	266	266	258	242	216	176	-
13	289	289	289	290	289	285	275	256	227	184

Flow **KM 100** (in NI/min) in relation to air
min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)

	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
4	162	-	-	-	-	-	-	-	-	-
5	209	191	-	-	-	-	-	-	-	-
6	251	247	217	-	-	-	-	-	-	-
7	293	293	280	240	-	-	-	-	-	-
8	335	355	332	310	261	-	-	-	-	-
9	376	376	376	367	337	280	-	-	-	-
10	418	418	418	416	399	362	298	-	-	-
11	460	460	460	460	452	428	385	315	-	-
12	502	502	502	502	500	486	456	407	332	-
13	544	544	544	544	544	537	517	482	428	347

Technical Data

H9 subject to change