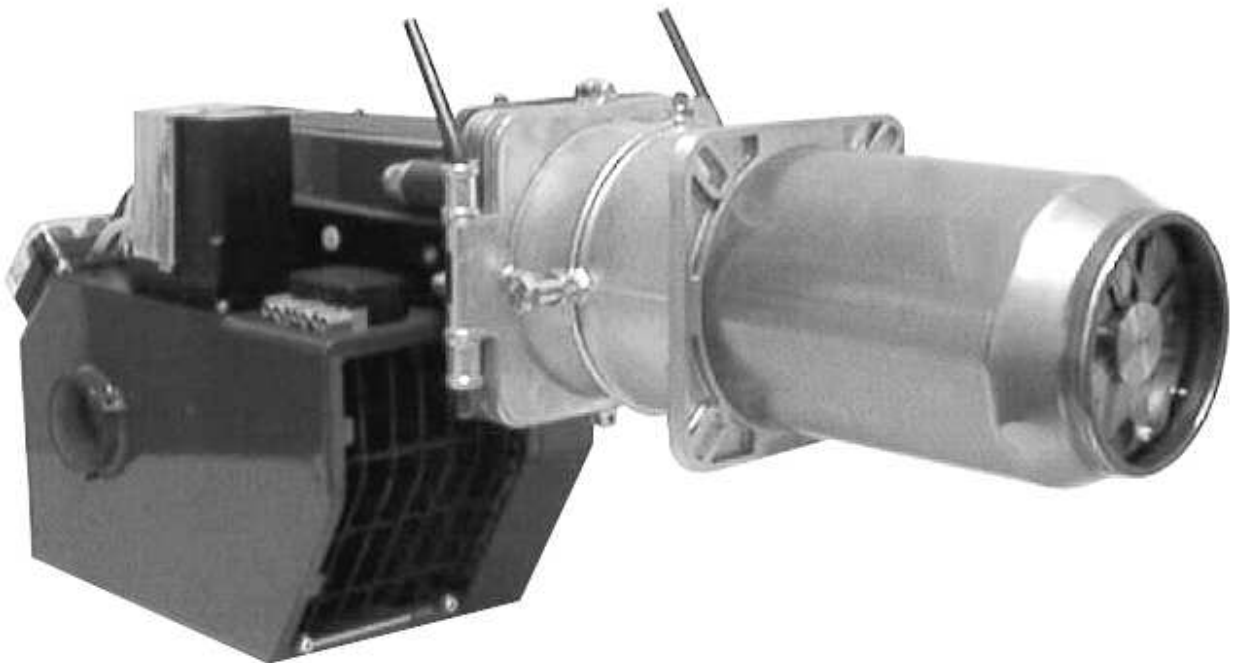


Technical Information • Data Sheet

MG10-LN

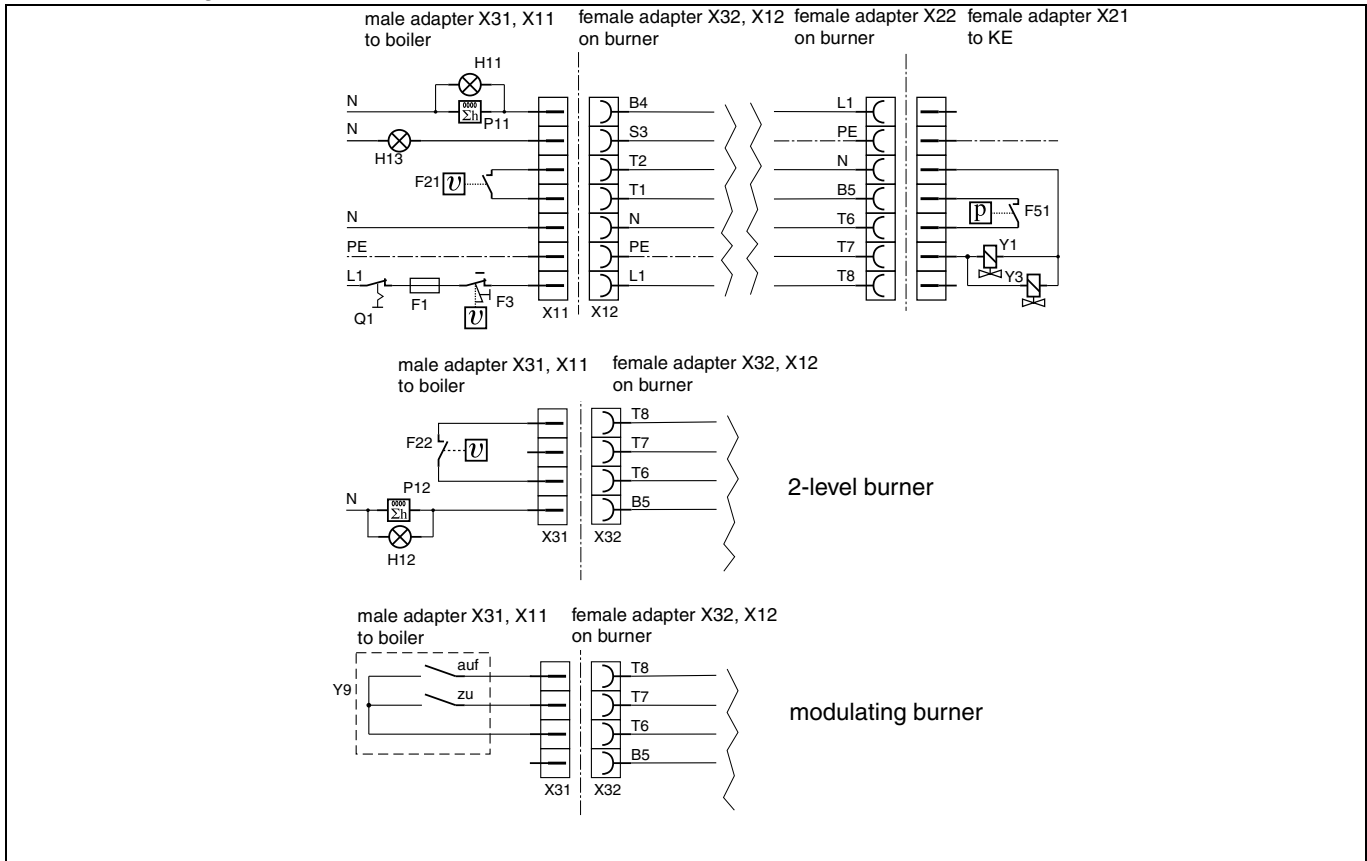
Edition July 2022
Technical changes in the sense of
product improvement reserved!

Gas



Electrical connection

Connection diagram

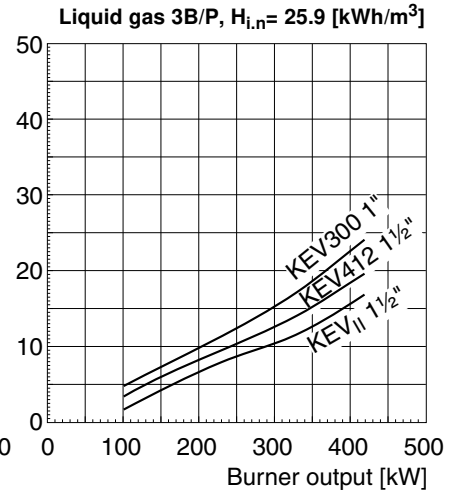
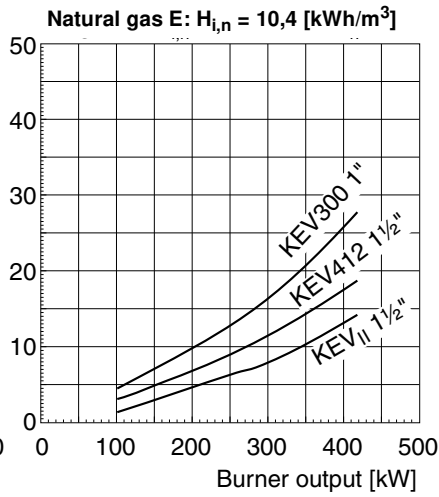
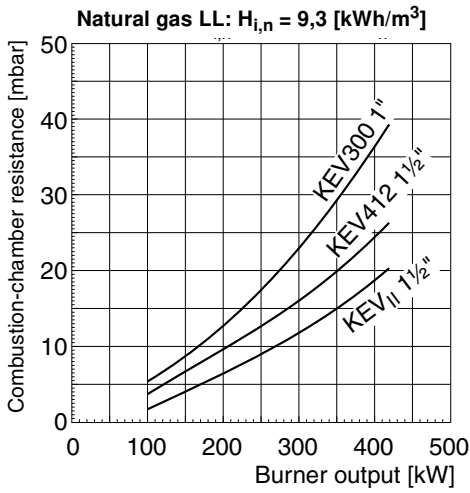


Technical specifications

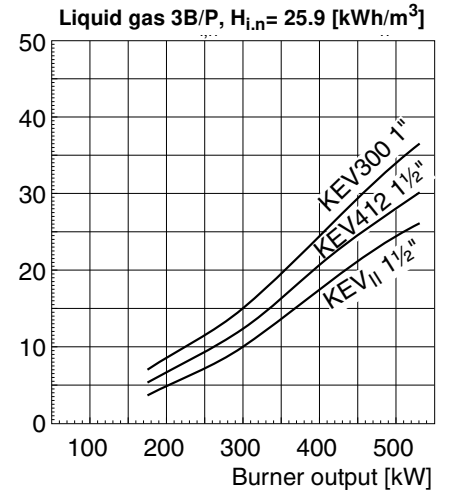
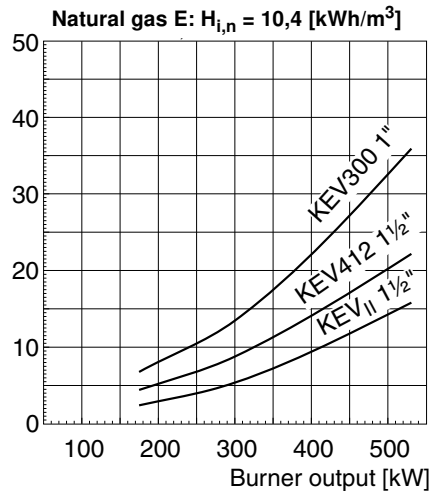
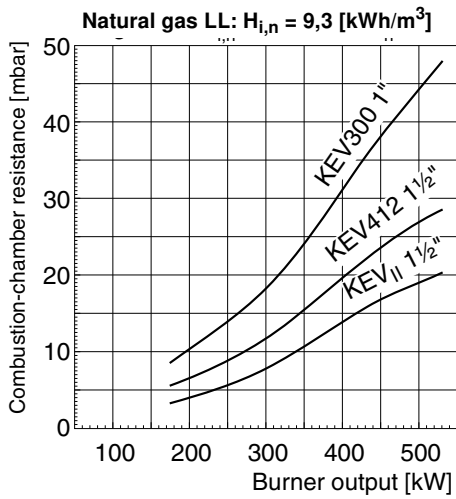
Technical specifications	Burner type	
	MG 10/1-LN	MG 10/2-LN
Burner output in kW	95 - 420	125 - 530
Gas type	Erdgas LL + E = „N“, Flüssiggas = „F“	
Mode of operation	2-stufig gleitend, modulierend	
Mode of operation voltage	1 / N / PE ~ 50 Hz 230 V	
Max. power consumption at start / during operation	4,0 A max. / 2,3 A eff.	6,5 A max. / 3,5 A eff.
Electric motor power (at 2800 rpm) in kW	0,370	0,750
Flame failure controller	Ionisation	
Control box	LME 22	
Weight in kg	45	46
Noise emission in dB (A)	≤ 78	≤ 78
Gasburner class	5	3
NOx Limit value	≤ 56 mg/kWh	≤ 80 mg/kWh

Gas ramp selection diagrams

MG10.1



MG10.2



Adjustment tables



The values given in the tables are only setting values for start-up. The necessary system adjustment must be newly determined in the case of deviating data such as boiler output, calorific value and altitude.

A correction is required in any case.

During the initial start-up and after each setting, a combustion check must be carried out.

The maximal burner output can only be achieved in mixing head position 0. Due to the variable mixing head position, the operating behaviour of the burner can be optimized for different heat generators.

MG10/1-LN Burner output		Boiler output at $\eta = 92\%$ Stage 2	Position air flap		Burner head position [mm]	Natural gas LL: $H_{i,n} = 9.3$ [kWh/m ³]			
Stage 2 [kW]	Stage 1 [kW]		ST2 [°]	ST1 [°]		Gas nozzle pressure Stage 2 Stage 1 [mbar] [mbar]		Gas throughput Stage 2 Stage 1 [m ³ /h] [m ³ /h]	
180	95	166	15	6	15	3,8	1,2	20,0	10,5
240	120	221	23	7	15	7,2	2,0	26,6	13,3
280	150	258	36	9	15	10,0	2,7	31,0	16,6
330	170	304	90	12	15	13,0	3,2	36,6	18,8
280	140	256	27	10	0	8,6	1,7	31,0	15,7
360	180	331	40	15	0	12,0	2,8	39,9	20,0
380	200	350	50	17	0	13,8	3,8	42,1	22,2
420	220	386	90	18	0	16,7	4,6	46,6	24,4

MG10/1-LN Burner output		Boiler output at $\eta = 92\%$ Stage 2	Position air flap		Burner head position [mm]	Natural gas E: $H_{i,n} = 10.4$ [kWh/m ³]			
Stage 2 [kW]	Stage 1 [kW]		ST2 [°]	ST1 [°]		Gas nozzle pressure Stage 2 Stage 1 [mbar] [mbar]		Gas throughput Stage 2 Stage 1 [m ³ /h] [m ³ /h]	
180	95	166	15	6	15	3,0	0,9	17,8	9,4
240	120	221	23	7	15	5,6	1,6	23,8	11,9
280	150	258	36	9	15	7,8	2,1	27,8	14,9
330	170	304	90	12	15	10,2	2,5	32,7	16,9
280	140	256	27	10	0	6,7	1,3	27,8	13,9
360	180	331	40	15	0	9,4	2,2	35,7	17,8
380	200	350	50	17	0	10,6	3,0	37,7	19,8
420	220	386	90	18	0	13,1	3,6	41,6	21,8

MG10/1-LN Burner output		Boiler output at $\eta = 92\%$ Stage 2	Position air flap		Burner head position [mm]	LPG: $H_{i,n} = 25.89$ [kWh/m ³]			
Stage 2 [kW]	Stage 1 [kW]		ST2 [°]	ST1 [°]		Gas nozzle pressure Stage 2 Stage 1 [mbar] [mbar]		Gas throughput Stage 2 Stage 1 [m ³ /h] [m ³ /h]	
180	95	166	15	6	15	4,8	1,0	7,2	3,8
240	120	221	23	7	15	7,2	1,6	9,6	4,8
280	150	258	36	9	15	9,8	2,8	11,1	6,0
330	170	304	90	12	15	13,8	3,6	13,1	6,8
280	140	256	27	10	0	8,5	2,0	11,1	5,6
360	180	331	40	15	0	13,0	3,8	14,3	7,2
380	200	350	50	17	0	15,8	4,2	15,1	8,0
420	220	386	90	18	0	18,6	5,0	16,7	8,8

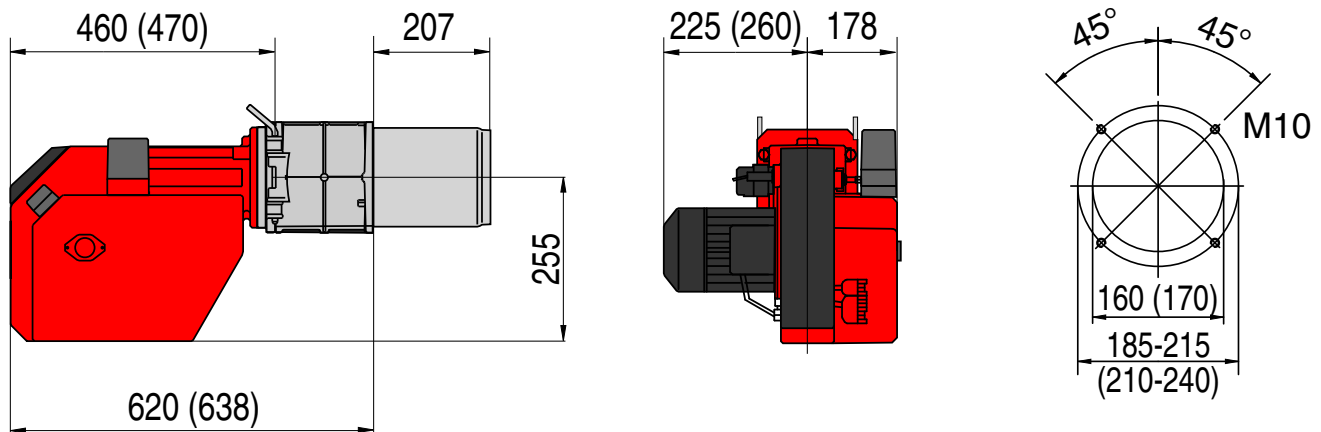
MG10/2-LN Burner output		Boiler output at $\eta = 92\%$	Position air flap		Burner head position	Natural gas LL: $H_{i,n} = 9.3$ [kWh/m³]			
Stage 2	Stage 1		Stage 2	ST2		ST1	Gas nozzle pressure		Gas throughput
[kW]	[kW]	[kW]	[°]	[°]	[mm]	Stage 2	Stage 1	Stage 2	Stage 1
						[mbar]	[mbar]	[m ³ /h]	[m ³ /h]
250	125	230	19	9	5	3,8	1,5	27,7	13,9
300	150	276	26	9	5	5,9	2,0	33,3	16,6
400	200	368	53	13	5	10,2	2,8	44,3	22,2
440	220	405	90	16	5	12,8	3,2	48,2	24,4
360	180	331	33	14	0	7,7	3,1	39,9	20,0
440	220	405	52	20	0	12,0	4,2	48,8	24,4
500	250	460	70	23	0	14,4	5,0	55,4	27,7
530	270	488	90	24	0	15,5	5,2	58,8	29,9

MG10/2-LN Burner output		Boiler output at $\eta = 92\%$	Position air flap		Burner head position	Natural gas E: $H_{i,n} = 10.4$ [kWh/m³]			
Stage 2	Stage 1		Stage 2	ST2		ST1	Gas nozzle pressure		Gas throughput
[kW]	[kW]	[kW]	[°]	[°]	[mm]	Stage 2	Stage 1	Stage 2	Stage 1
						[mbar]	[mbar]	[m ³ /h]	[m ³ /h]
250	125	230	19	9	5	3,0	1,2	24,8	12,4
300	150	276	26	9	5	4,6	1,6	29,7	14,9
400	200	368	53	13	5	8,0	2,2	39,7	19,8
440	220	405	90	16	5	10,0	2,5	43,6	21,8
360	180	331	33	14	0	6,0	2,4	35,7	17,8
440	220	405	52	20	0	9,4	3,3	43,6	21,8
500	250	460	70	23	0	11,3	3,9	49,6	24,8
530	270	488	90	24	0	12,1	4,1	52,5	26,8

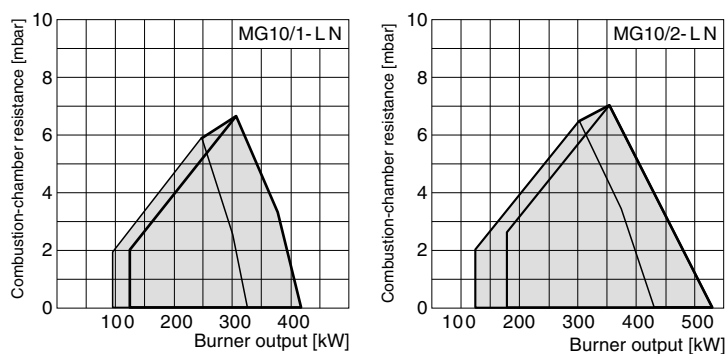
MG10/2-LN Burner output		Boiler output at $\eta = 92\%$	Position air flap		Burner head position	LPG: $H_{i,n} = 25.89$ [kWh/m³]			
Stage 2	Stage 1		Stage 2	ST2		ST1	Gas nozzle pressure		Gas throughput
[kW]	[kW]	[kW]	[°]	[°]	[mm]	Stage 2	Stage 1	Stage 2	Stage 1
						[mbar]	[mbar]	[m ³ /h]	[m ³ /h]
250	125	230	19	9	5	6,3	1,5	10,0	5,0
300	150	276	26	9	5	9,1	2,2	11,9	6,0
400	200	368	53	13	5	16,2	4,0	15,9	8,0
440	220	405	90	16	5	19,8	4,9	17,5	8,8
360	180	331	33	14	0	11,3	2,8	14,3	7,2
440	220	405	52	20	0	16,8	4,2	17,5	8,8
500	250	460	70	23	0	22,0	5,5	19,9	10,0
530	270	488	90	24	0	24,5	6,3	21,1	10,8

Overall dimensions / Boiler connection measures

All dimensions in mm (Dimensions in brackest MG10/2-LN)



Working ranges



Working ranges according to EN 676.

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