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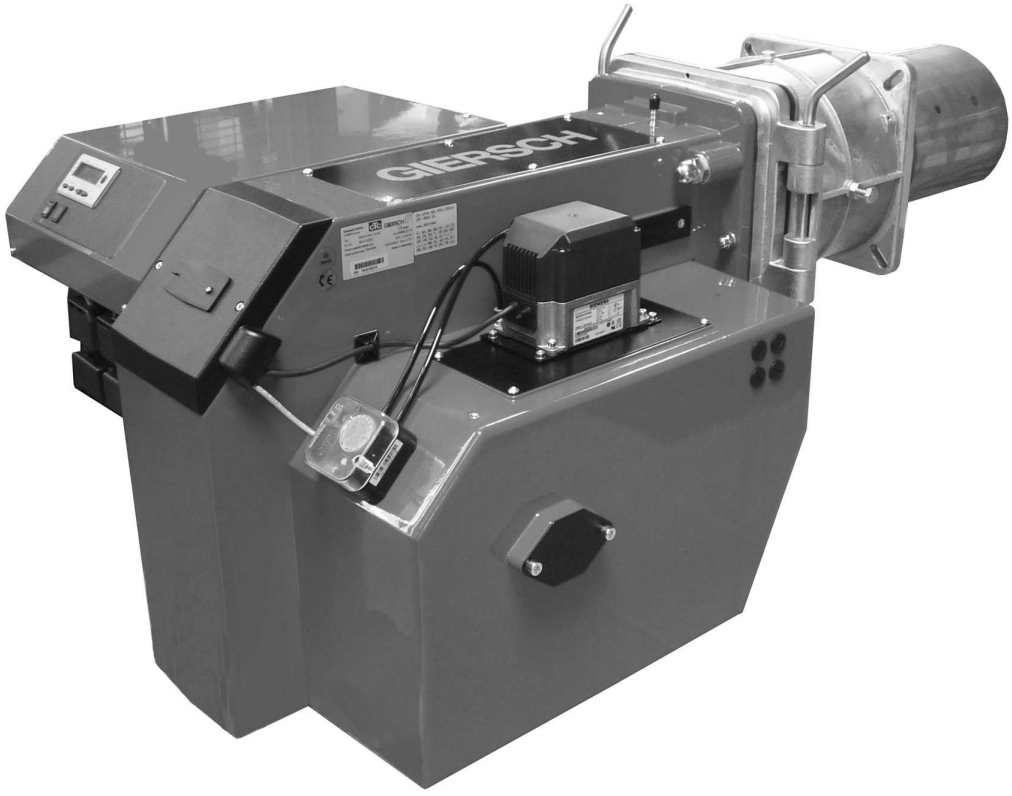
Technical Information • Data Sheet

MG3-ZM-LN

Edition June 2022

Gas

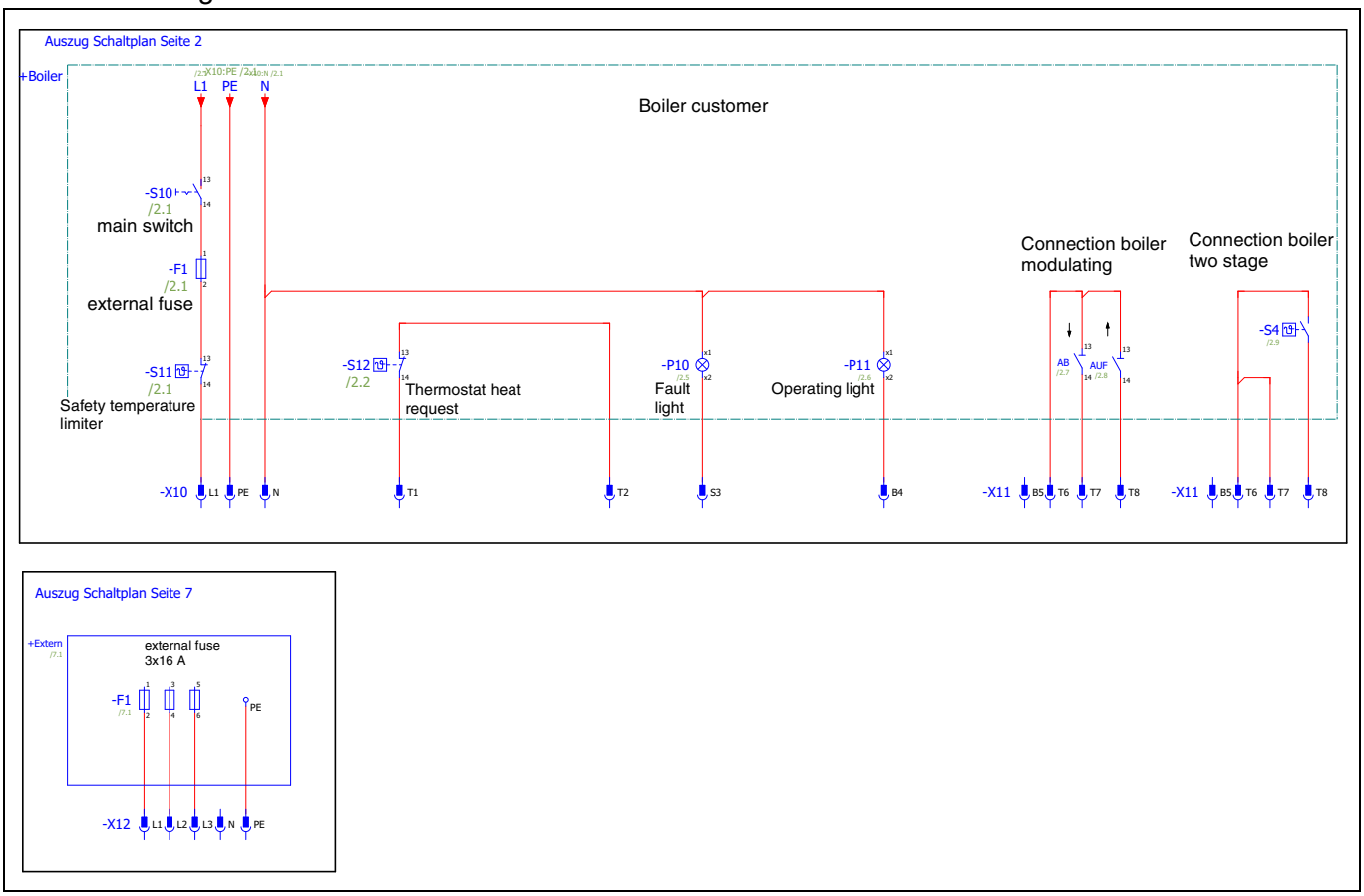


CE

GB

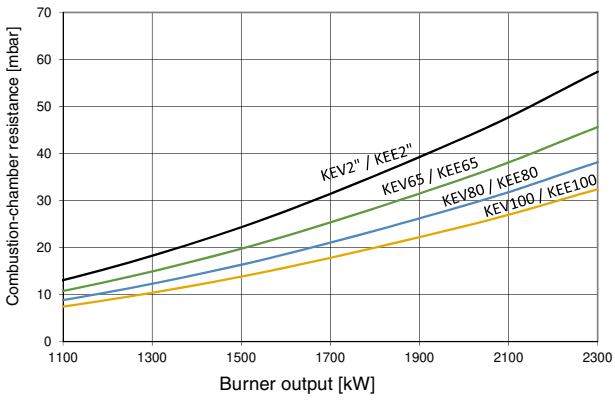
Electrical connection

Connection diagram

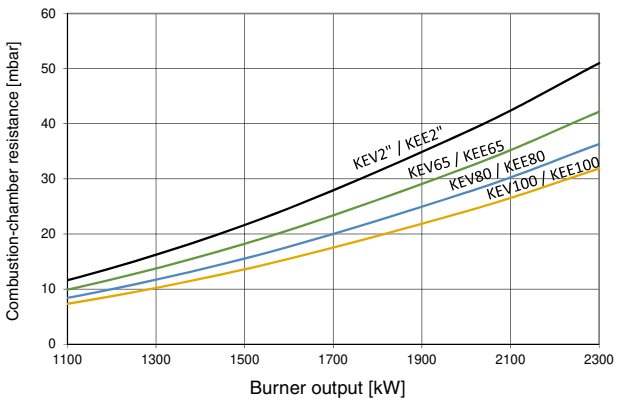


Gas ramp selection diagrams

Natural gas LL: $H_{i,n}$ = 9,3 [kWh/m³]



Natural gas E: $H_{i,n}$ = 10,4 [kWh/m³]



Technical specifications

	Burner type
Technical specifications	**MG3-ZM-LN**
Burner output in kW	450 - 2300
Gas type	Natural gas LL + E= „ N“
Mode of operation	two stage / modulating
Mode of operationoltage	230 / 400 V - 50 Hz
Max. power consumption at start / during operation	16,5 A max./ 11,4 A eff.
Electric motor power (at 2800 rpm) in kW	4,5
Flame failure controller	Ionisation
Control box	LMV27
Weight in kg	120
Noise emission in dB (A)	81
Gasgurner class	3
NOx Limit value	≤ 80 mg/kWh

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.

							Natural gas LL: $H_{i,n}$ = 9,3 [kWh/m³]			
Burner output **MG3-ZM-L-LN** 2.Step	1. Step	Boiler output ηk = 92% 2.Step	1. Step	Air flap position 2.Step P9	1. Steep P1	Mixing head position	Gas nozzle pressure 2.Step	1. Step	Gas flow rate 2.Step	1. Step
[kW]	[kW]	[kW]	[kW]	[°]	[°]	[mm]	[mbar]	[mbar]	[m³/h]	[m³/h]
900	450	828	414	16	5,5	20	11,5	3,5	101,3	50,7
1100	550	1012	506	23	7,5	20	17	4,5	123,9	61,9
1300	650	1196	598	42	10	20	25,3	6,4	146,4	73,2
1400	750	1288	690	48	12,5	20	28	8	157,6	84,4
1600	850	1472	782	55	15	0	33,5	9,7	180,1	95,7
1800	950	1656	874	63	17,5	0	39	13,2	202,7	107,0
2100	1050	1932	966	72	20	0	44,5	16,4	236,4	118,2
2200	1150	2024	1058	80	23	0	50	19,7	247,7	129,5
2300	1250	2116	1150	90	25,5	0	55,5	23	259,0	140,7

							Natural gas E: $H_{i,n}$ = 10,4 [kWh/m³]			
Burner output **MG3-ZM-L-LN** 2.Step	1. Step	Boiler output ηk = 92% 2.Step	1. Step	Air flap position 2.Step P9	1. Steep P1	Mixing head position	Gas nozzle pressure 2.Step	1. Step	Gas flow rate 2.Step	1. Step
[kW]	[kW]	[kW]	[kW]	[°]	[°]	[mm]	[mbar]	[mbar]	[m³/h]	[m³/h]
900	450	828	414	16	5,5	20	9,0	2,7	90,6	45,3
1100	550	1012	506	23	7,5	20	13,3	3,5	110,8	55,4
1300	650	1196	598	42	10	20	19,8	5,0	130,9	65,4
1400	750	1288	690	48	12,5	20	21,9	6,3	141,0	75,4
1600	850	1472	782	55	15	0	26,2	7,6	161,1	85,6
1800	950	1656	874	63	17,5	0	30,5	10,3	181,2	95,7
2100	1050	1932	966	72	20	0	24,8	12,8	211,4	105,7
2200	1150	2024	1058	80	23	0	39,1	15,4	221,5	115,8
2300	1250	2116	1150	90	25,5	0	43,4	18,0	231,6	125,9

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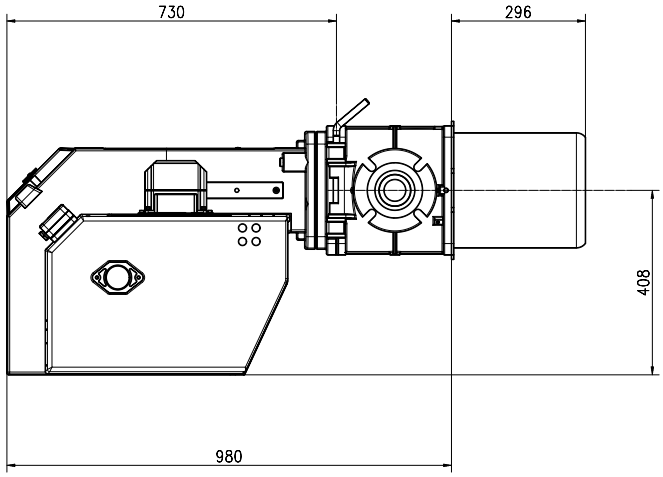
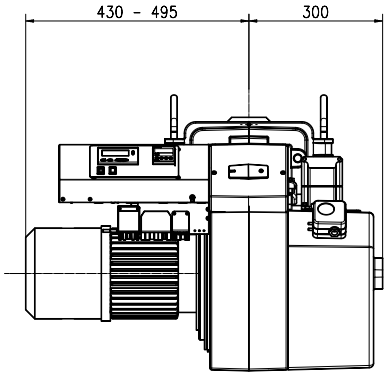
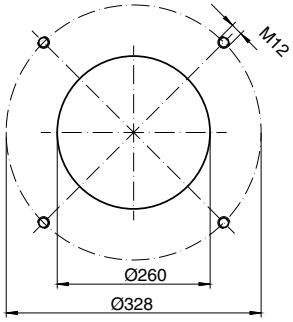
Overall dimensions / **Boiler connection measures** (all dimensions are given in mm)

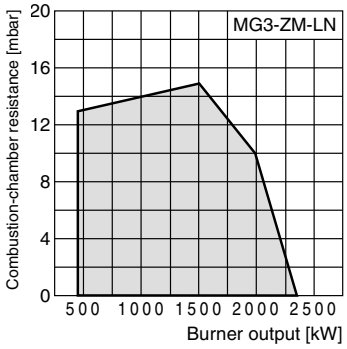




Boiler connection



Working range



Working ranges according to DIN EN 676. The working ranges refer to 15°C and 1013 bar.

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06-2022 • Art.Nr. 71-26-58448-GB • Printed in Germany • Enertech GmbH