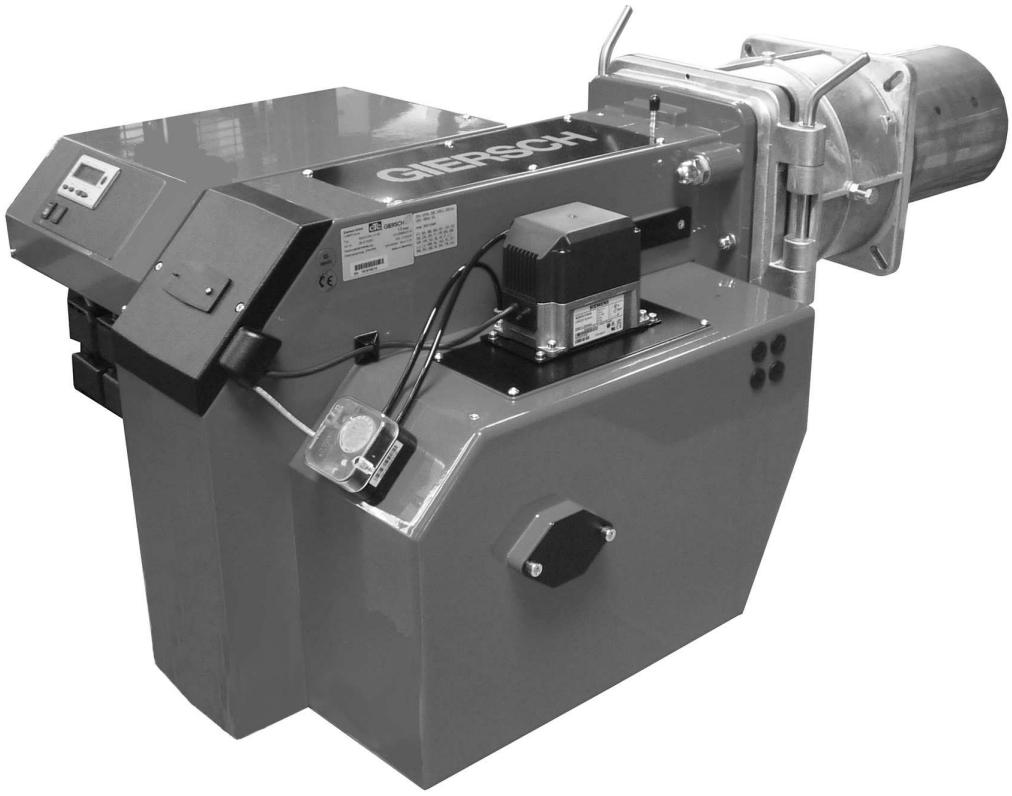
GIERSCH

Technical Information • Data Sheet

MG3-ZM-L-NB

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

Duo - Gas



CE

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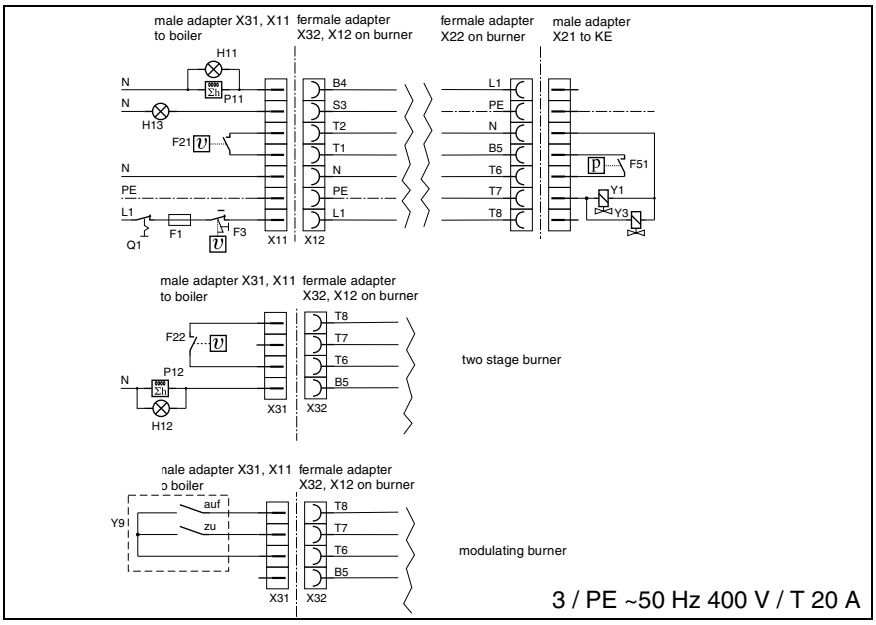
Electrical connection



Legend:

F1	Ext. fuse boiler control
F21,F22	Ext. temp. controller 1st stage/ 2nd stage
F3	Ext. safety temperature limiter
F51	Gas-pressure monitor
Q1	Main heating switch
H11,H12	Ext. pilot lamp
H13	Ext. fault message lamp
L1	Phase
P11,P12	Time meter 1st stage / 2nd stage
Y1,Y2	Solenoid valve
Y3	Safety solenoid valve
Y9	Ext. regulator

Technical specifications

	Burner type			
Technical specifications	**MG3.1-ZM-L**	**MG3.2-ZM-L**	**MG3.3-ZM-L**	**MG3.4-ZM-L**
Burner output in kW	390 - 1400	600 - 2100	640 - 2500	790 - 2800
Gas type	Natural gas LL + E= „ N“, Biogas 60/40			
Mode of operation	two stage / modulating			
Mode of operationoltage	230 / 400 V - 50 Hz			
Max. power consumption at start / during operation	12 A max./ 7,1 Aeff.	14,5 A max. / 10,2 A eff.	16,5 A max./ 11,4 A eff.	22,5 A max./ 15,5 A eff.
Electric motor power (at 2800 rpm) in kW	3,0	4,0	4,5	5,5
Flame failure controller	UV Sonde QRA 2			
Control box	LMV26			
Air pressure switch	LGW50			
Weight in kg	110	115	120	125
Noise emission in dB (A)	≤ 80	≤ 82	≤ 84	≤ 84
Gasgurner class	2			
NOx Limit value	≤ 120 mg/kWh			

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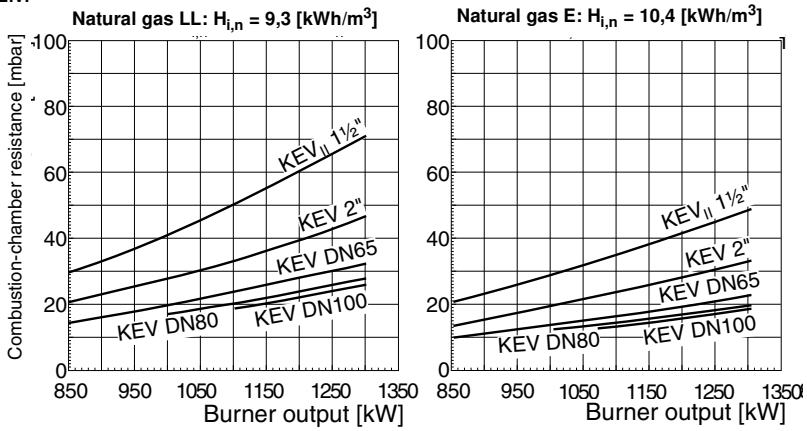
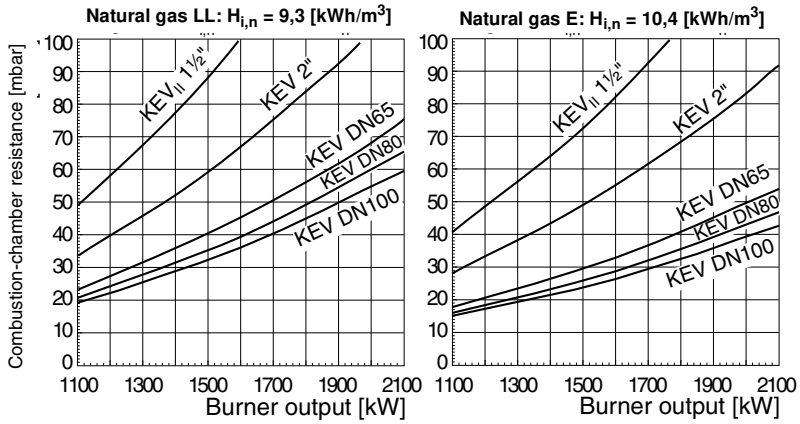
Gas ramp selection diagrams for Natural gas

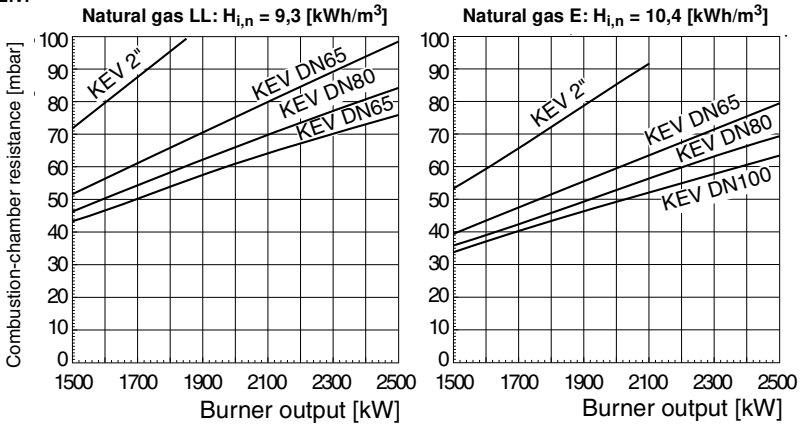
MG3.1-ZM



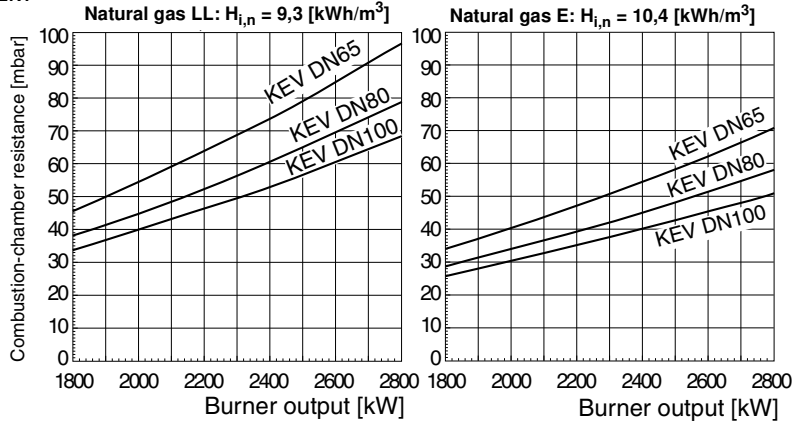
MG3.2-ZM



MG3.3-ZM

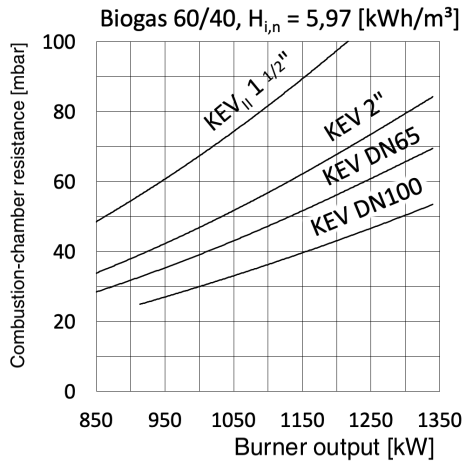


MG3.4-ZM

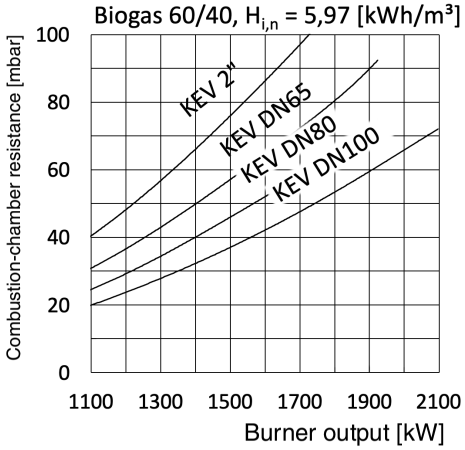


Gas ramp selection diagrams for Biogas

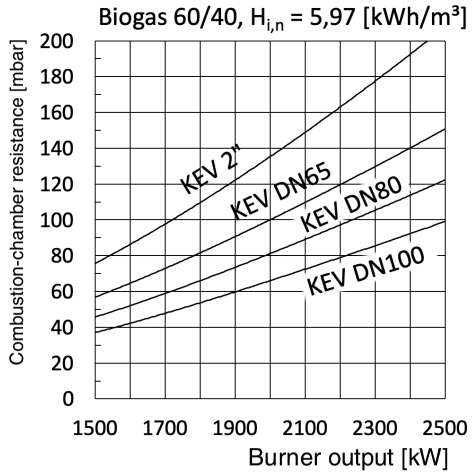
MG3.1



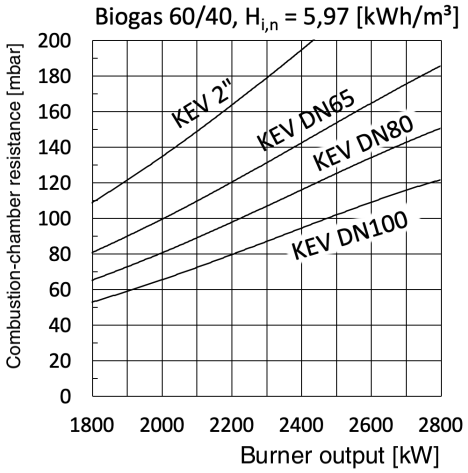
MG3.2



MG3.3



MG3.4



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Important information about biogas!

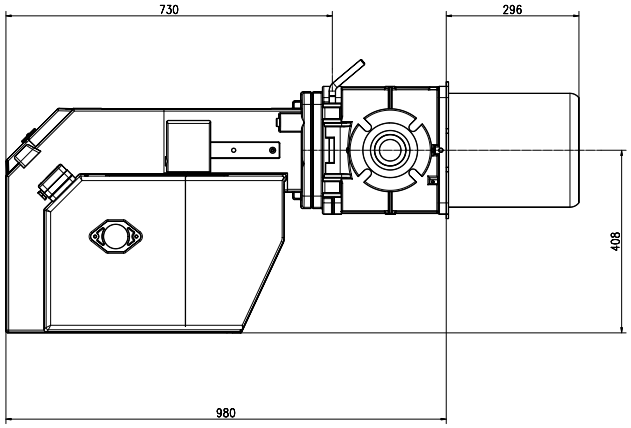
The gas composition must not contain more than 0.01% H_2S (hydrogen sulfide).

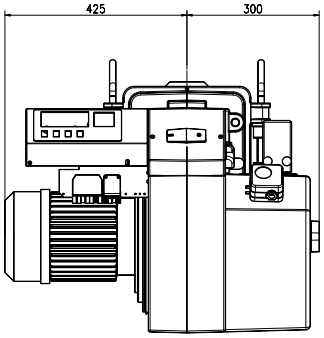
The gas composition should be more than 50% combustible gases (preferably CH_4) exist.

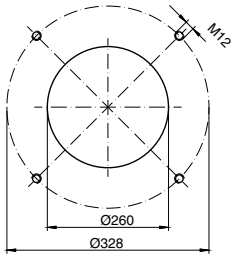
The selection chart is based on 60% methane (CH 4) to 40% carbon dioxide (CO_2).

Overall dimensions / Boiler connection measures

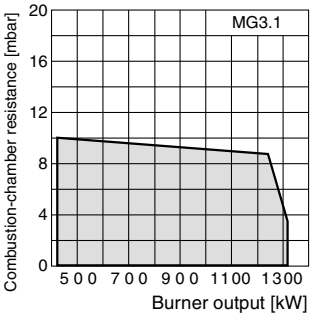
(all dimensions are given in mm)

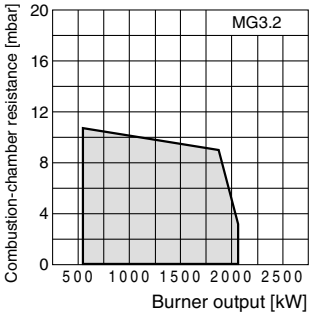


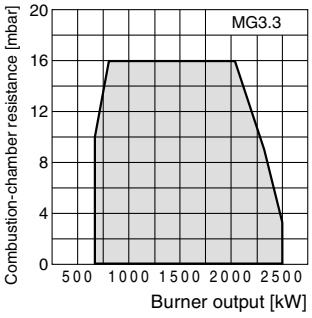


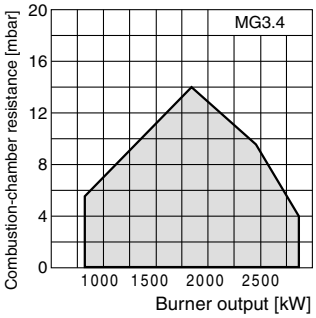


Working ranges









DVGW tested work areas according to DIN EN 676.

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