GIERSCH

Technical Information

RG1

Edition February 2024

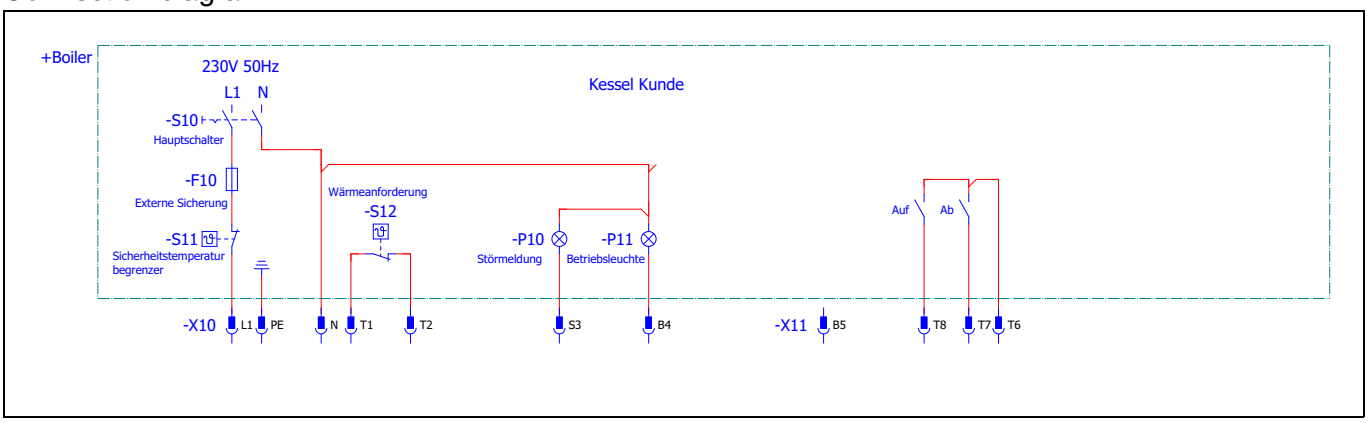
Gas

CE

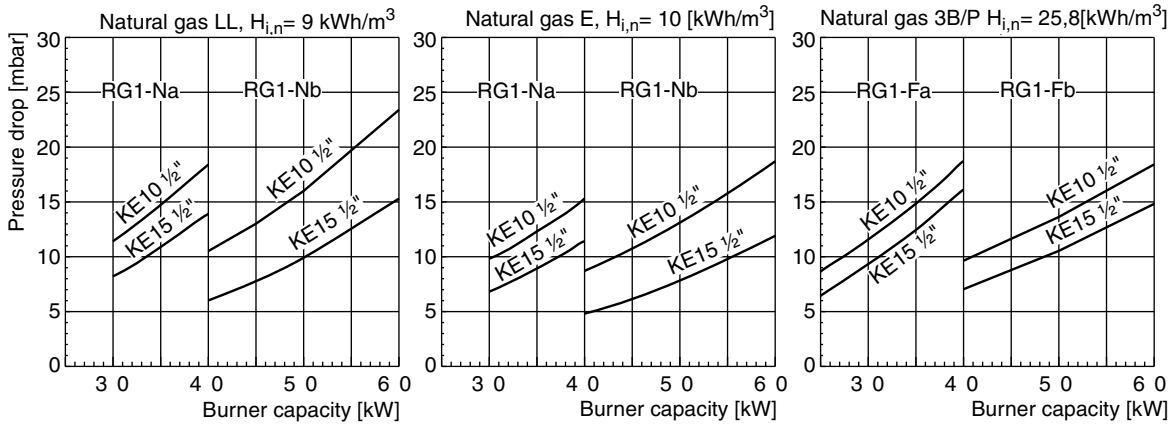
GB

Electrical connection

Connection diagram



Selection diagrams



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Technical specifications

	Burner type			
Technical data	**RG1(-L)-Na**	**RG1(-L)-Nb**	**RG1(-L)-Fa**	**RG1(-L)-Fb**
Min. burner output in kW	12	25	15	25
Max. burner output in kW	40	61	40	61
Min. boiler output in kW	11	23	14	23
Max. boiler output in kW	37	56	37	56
Gas type	for natural gas LL + E = "-N" / for LPG 3B/P = "-F"			
Max. gas pressure in mbar	70			
Voltage	1/N/PE ~50 Hz - 230 V			
Current consumption start max. / operation	1.9 A / 0.8 A			
Electric motor power in W	90			
ignition transformer	1x8 kV / 20 mA			
Control box	LME 11			
Weight in kg	14			
Noise emission in dB(A)	≤ 59			
Emission class	2			
NOx limit value	80 - 120 mg/kWh			

Adjustment tables RG1-Na

Burner output [kW]	Boiler output at η = 92% [kW]	Gas type	**Natural gas E: H_{in} = 10.4 [kWh/m³]** Gas nozzle pressure [mbar]	Gas flow [m³/h]	Air flow measurement "A" [mm]
14.1	13	E	1.4	1.4	6 - 7
17.4	16	E	2.1	1.8	8 - 9
23.9	22	E	3.8	2.4	9 - 11
28.3	26	E	5.5	2.9	11 - 12
34.8	32	E	8.0	3.6	12 - 13
40.2	37	E	11	4.1	12 - 15

Burner output [kW]	Boiler output at η = 92% [kW]	Gas type	**Natural gas LL: $H_{i,n}$ = 9.3 [kWh/m³]** Gas nozzle pressure [mbar]	Gas flow [m³/h]	Air flow measurement "A" [mm]
14.1	13	LL	1.8	1.6	6 - 7
17.4	16	LL	2.6	2.0	8 - 9
23.9	22	LL	4.8	2.7	9 - 11
28.3	26	LL	7.0	3.2	11- 12
34.8	32	LL	10.4	4.0	12 - 13
40.2	37	LL	14.0	4.6	12 - 15

RG1-Fa

Burner output [kW]	Boiler output at η = 92% [kW]	**LPG 3B/P: $H_{i,n}$ = 25.8 [kWh/m³]** Gas nozzle pressure [mbar]	Gas flow [m³/h]	Air flow measurement "A" [mm]
15.0	14	2.4	0.6	6 - 7
17.4	16	3.0	0.7	8 - 9
22.2	20	5.8	0.9	9 - 10
27.8	26	9.0	1.1	11 - 12
33.3	31	12.3	1.4	11 - 13
40.2	37	15.5	1.6	12 - 15

RG1-Nb

Burner output [kW]	Boiler output at η = 92% [kW]	Gas type	**Natural gas E: $H_{i,n}$ = 10.4 [kWh/m³]**		Air flow measurement "A" [mm]
			Gas nozzle pressure [mbar]	Gas flow [m³/h]	
25.0	23	E	1.7	2.5	10 - 11
33.7	31	E	3.0	3.4	11 - 12
39.1	36	E	4.3	3.9	12 - 13
44.6	41	E	5.4	4.5	13 - 15
50.0	46	E	6.8	5.1	15 - 18
58.7	54	E	9.2	6.0	20 - 26

Burner output [kW]	Boiler output at η = 92% [kW]	Gas type	**Natural gas LL: $H_{i,n}$ = 9.3 [kWh/m³]**		Air flow measurement "A" [mm]
			Gas nozzle pressure [mbar]	Gas flow [m³/h]	
25.0	23	LL	2.1	2.9	10 - 11
33.7	31	LL	3.8	3.9	11 - 12
39.1	36	LL	5.5	4.5	12 - 13
44.6	41	LL	6.8	5.1	13 - 15
50.0	46	LL	8.7	5.7	15 - 18
58.7	54	LL	11.7	6.7	20 - 26

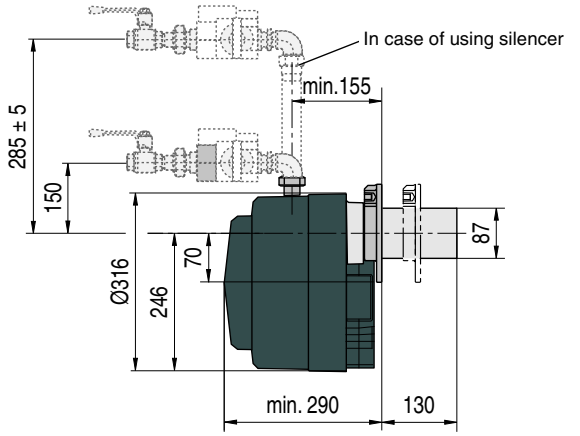
RG1-Fb

Burner output [kW]	Boiler output at η = 92% [kW]	**LPG 3B/P: $H_{i,n}$ = 25.8 [kWh/m³]**		Air flow measurement "A" [mm]
		Gas nozzle pressure [mbar]	Gas flow [m³/h]	
25	23	2.8	1.0	10 - 11
33.7	31	5.3	1.4	11 -12
39.1	36	7.2	1.6	12 - 13
44.6	41	9.0	1.8	13 - 15
50.0	46	11.0	2.1	15 - 18
58.7	54	14.0	2.4	20 - 26

Overall dimensions / Boiler connection measures

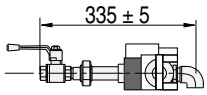
All dimensions in mm

Boiler

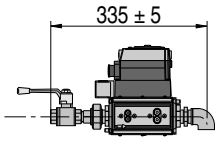


Compact units

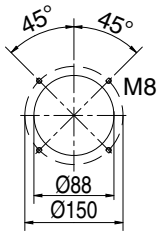
KE10 ½"



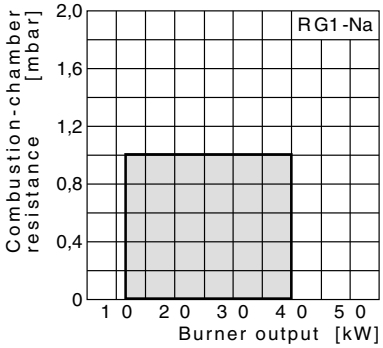
KE15 ½"

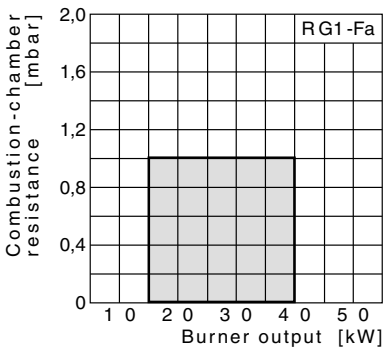


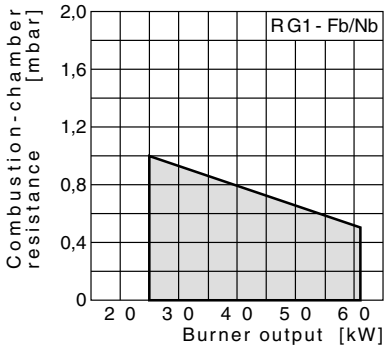
Boiler connection measures



Working range







DVGW-checked working ranges as per DIN EN 676.

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