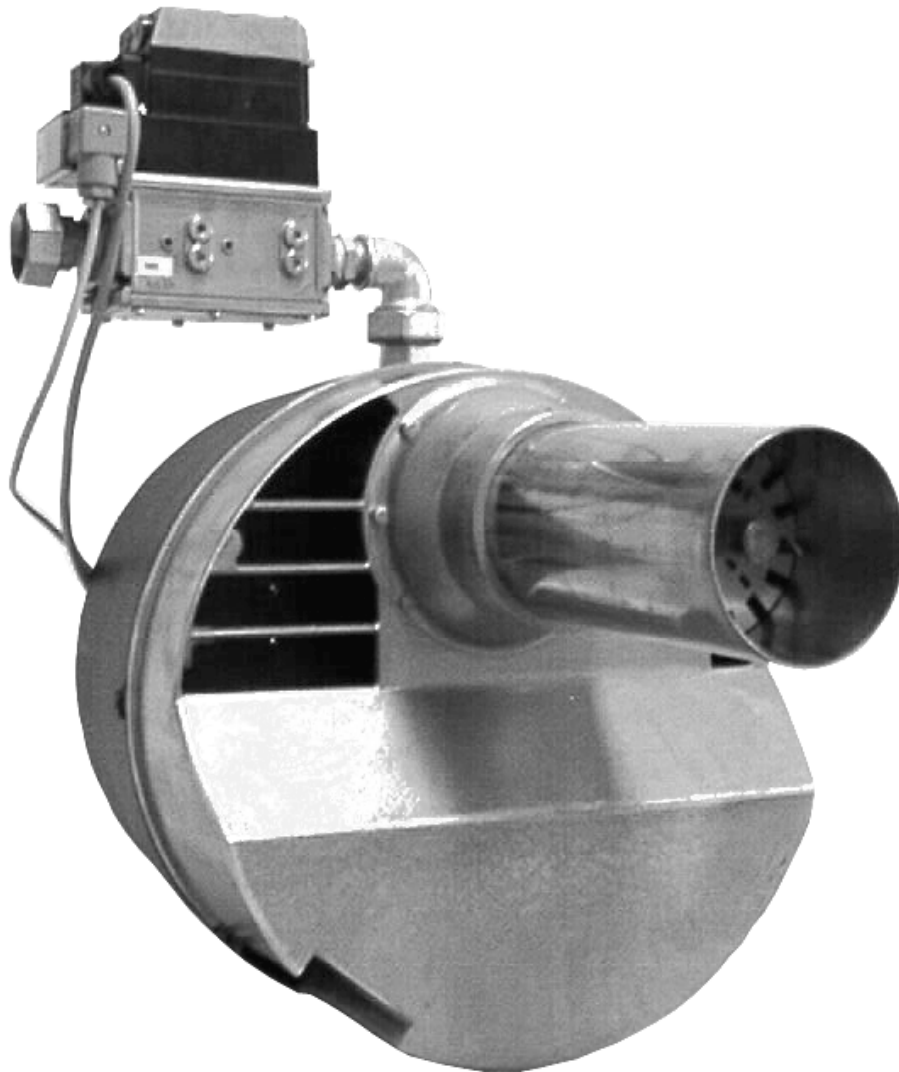


Technical Information • Data Sheet

RG20

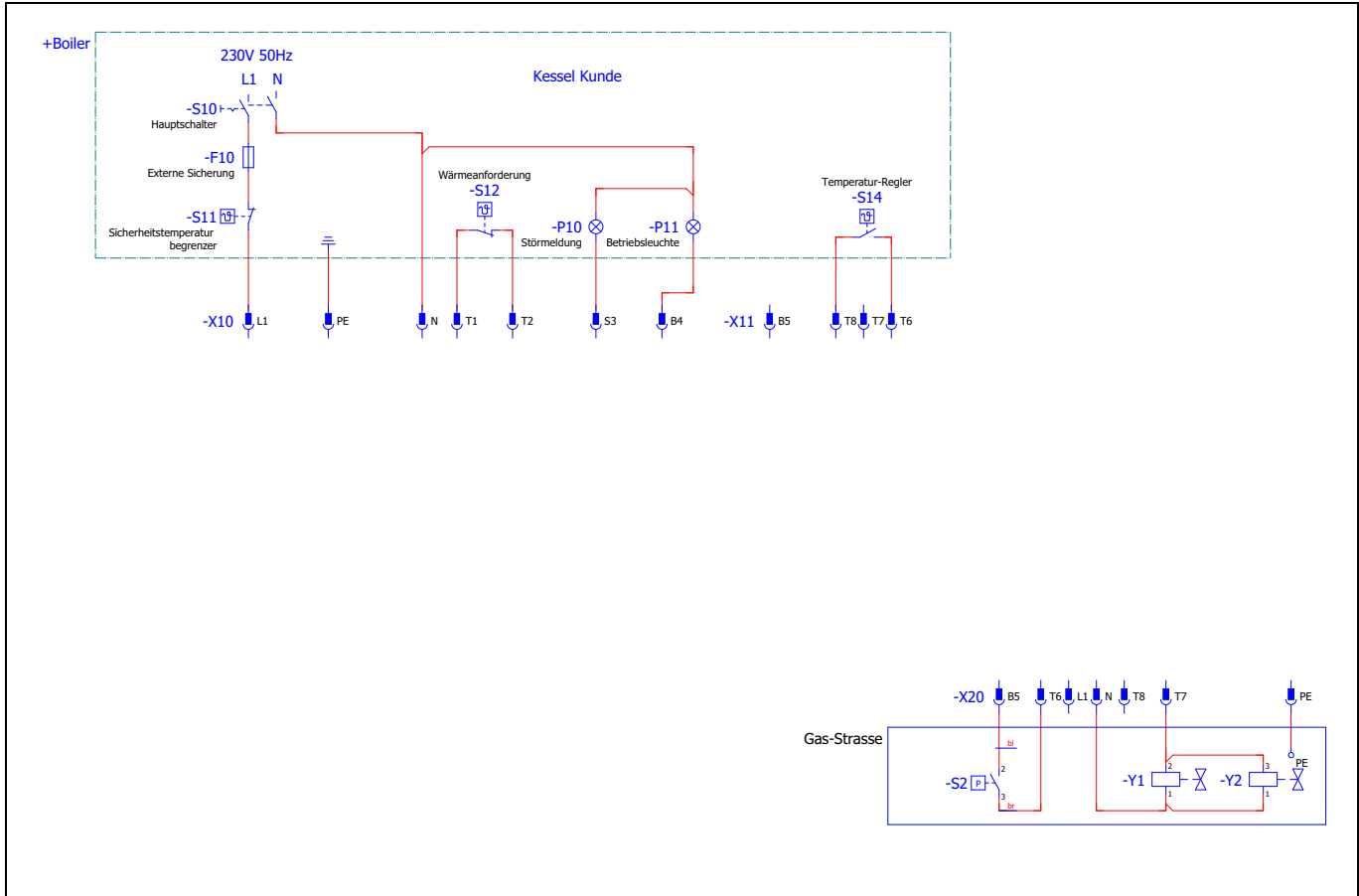
Issued April 2024
Right reserved to effect technical changes
in the interest of product improvement !

Gas

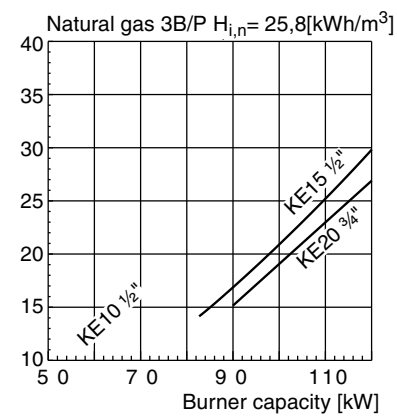
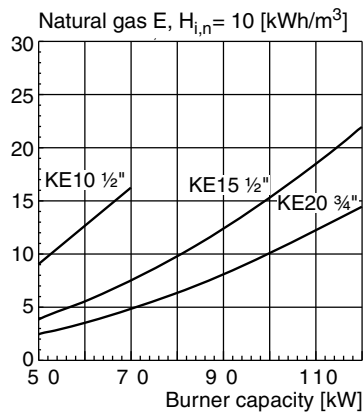
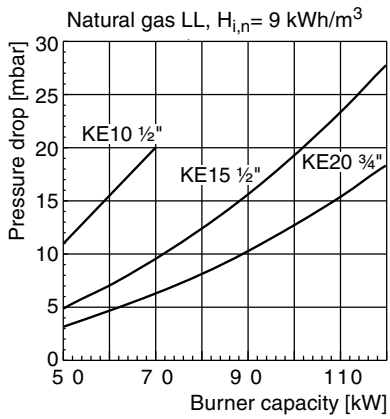


Electrical connection

RG20-Z-L



Selection diagrams



Technical specifications

Technical data	Burner type			
	RG20-N(-F)	RG20-L-N(-F)	RG20-Z-L-N(-F)	RG20-M-L-N
Burner output in kW	40 - 120			
Gas type	for natural gas LL + E = "-N" / LPG 3B/P = "-F"			
Method of operation	1-stage		2-stage sliding	modulating
Voltage	1 / N / PE ~50 Hz - 230 V			
Max. current consumption Max. start / operation	1.48A/0.75A	1.35A/0.72A		
Electric motor power (at 2850 rpm ⁻¹) in kW	0.14			
Flame failure controller	ionisation electrode			
Control box	LME11		LME22	
Weight in kg	26			
Noise emission in db(A)	≤ 72			
Gasburner class	2			
NOx limit value	80 - 120 mg/kWh			



Adjustment tables RG20(-L)



Burner output [kW]	Boiler output at $\eta = 92\%$ [kW]	Natural gas LL: $H_{i,n} = 9.3$ [kWh/m ³]		Air flow dimension „A“ [mm]
		Gas nozzle pressure [mbar]	Gas flow [m ³ /h]	
40	37	1.9	4.6	11
43	40	2.2	5.0	12
54	50	3.3	6.2	15
65	60	4.7	7.5	17
76	70	6.4	8.7	20
87	80	8.2	9.9	22
98	90	10.4	11.2	25
109	100	12.6	12.4	29
120	110	15.2	13.7	46



Burner output [kW]	Boiler output at $\eta = 92\%$ [kW]	Natural gas E: $H_{i,n} = 10.4$ [kWh/m ³]		Air flow dimension „A“ [mm]
		Gas nozzle pressure [mbar]	Gas flow [m ³ /h]	
40	37	1.5	4.1	11
43	40	1.7	4.4	12
54	50	2.6	5.6	15
65	60	3.7	6.7	17
76	70	5.0	7.8	20
87	80	6.5	8.9	22
98	90	8.2	10.0	25
109	100	9.9	11.1	29
120	110	11.9	12.2	46

Burner output [kW]	Boiler output at $\eta = 92\%$ [kW]	LPG 3B/P: $H_{i,n} = 25.8$ [kWh/m ³]		Air flow dimension „A“ [mm]
		Gas nozzle pressure [mbar]	Gas flow [m ³ /h]	
40	37	3.0	1.6	11
50	46	4.2	2.0	14
56	51	5.8	2.3	15
64	59	7.1	2.6	17
72	66	9.2	2.9	19
80	74	11.5	3.3	21
90	83	14.2	3.7	23
101	93	18.3	4.1	26
111	102	21.3	4.5	30
120	110	25.3	4.9	46

RG20-Z(-M)-L

Burner output		Boiler output at $\eta = 92\%$ (Stage 2) High load [kW]	Air flap		Natural gas LL: $H_{i,n} = 9.3$ [kWh/m ³]						Air flow dimension „A“ [mm]
Stage 2	Stage 1		ST2	ST1	Gas nozzle pressure		Gas flow		Compact gas unit		
[kW]	[kW]				Stage 2	Stage 1	Stage 2	Stage 1	V	N	
			[°]	[°]	[mbar]	[mbar]	[m ³ /h]	[m ³ /h]			
62	43	57	10	2	4.2	2.0	7.1	4.9	2.1	0	46.0
71	47	65	15	5	5.5	2.4	8.1	5.4	2.1	0	46.0
85	58	78	25	10	7.9	4.3	9.7	6.6	2.1	0	46.0
102	72	94	40	15	11.3	5.5	11.7	8.2	2.1	0	46.0
113	79	104	65	20	13.9	6.8	12.9	9.0	2.1	0	46.0

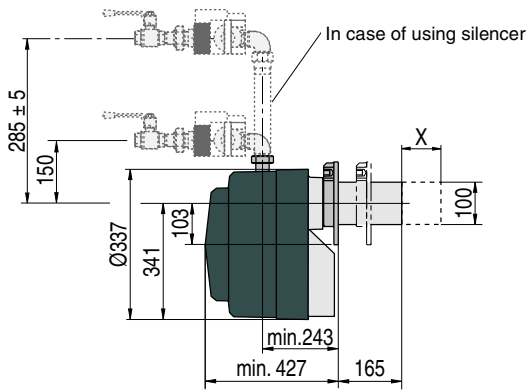
Burner output		Boiler output at $\eta = 92\%$ (Stage 2) High load [kW]	Air flap		Natural gas E: $H_{i,n} = 10.4$ [kWh/m ³]						Air flow dimension „A“ [mm]
Stage 2	Stage 1		ST2	ST1	Gas nozzle pressure		Gas flow		Compact gas unit		
[kW]	[kW]				Stage 2	Stage 1	Stage 2	Stage 1	V	N	
			[°]	[°]	[mbar]	[mbar]	[m ³ /h]	[m ³ /h]			
62	43	57	10	2	3.2	1.5	6.3	4.4	1.8	0	46.0
71	47	65	15	5	4.2	1.8	7.3	4.8	1.8	0	46.0
85	58	78	25	10	6.0	3.2	8.7	5.9	1.8	0	46.0
102	72	94	40	15	8.6	4.2	10.4	7.4	1.8	0	46.0
113	79	104	65	20	10.6	5.2	11.6	8.1	1.8	0	46.0

Burner output		Boiler output at $\eta = 92\%$ (Stage 2) High load [kW]	Air flap		LPG 3B/P: $H_{i,n} = 25.8$ [kWh/m ³]						Air flow dimension „A“ [mm]
Stage 2	Stage 1		ST2	ST1	Gas nozzle pressure		Gas flow		Compact gas unit		
[kW]	[kW]				Stage 2	Stage 1	Stage 2	Stage 1	V	N	
			[°]	[°]	[mbar]	[mbar]	[m ³ /h]	[m ³ /h]			
75	59	69	10	2	11	6.5	3.1	2.5	5.0	0	46.0
91	59	84	20	2	16	6.5	3.8	2.5	5.0	0	46.0
101	59	93	30	2	20	6.5	4.2	2.5	5.0	0	46.0
110	75	101	40	10	23.5	11	4.6	3.1	5.0	0	46.0
120	75	110	65	10	28.5	11	5.0	3.1	5.0	0	46.0

Overall dimensions / Boiler connection measures

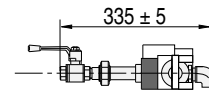
All dimensions in mm

Boiler

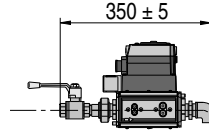


Compact units

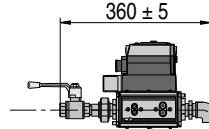
KE10 1/2"



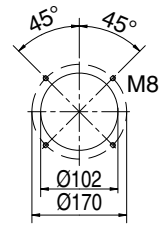
KE15 1/2"



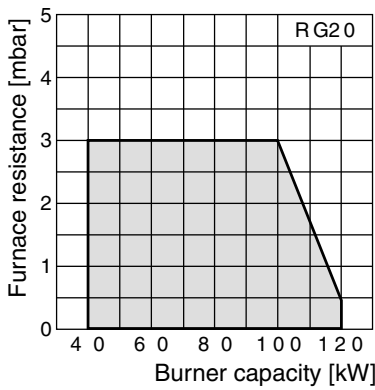
KE20 3/4"



Boiler connection measures



Working range



DVGW-tested working range to DIN EN 676.

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