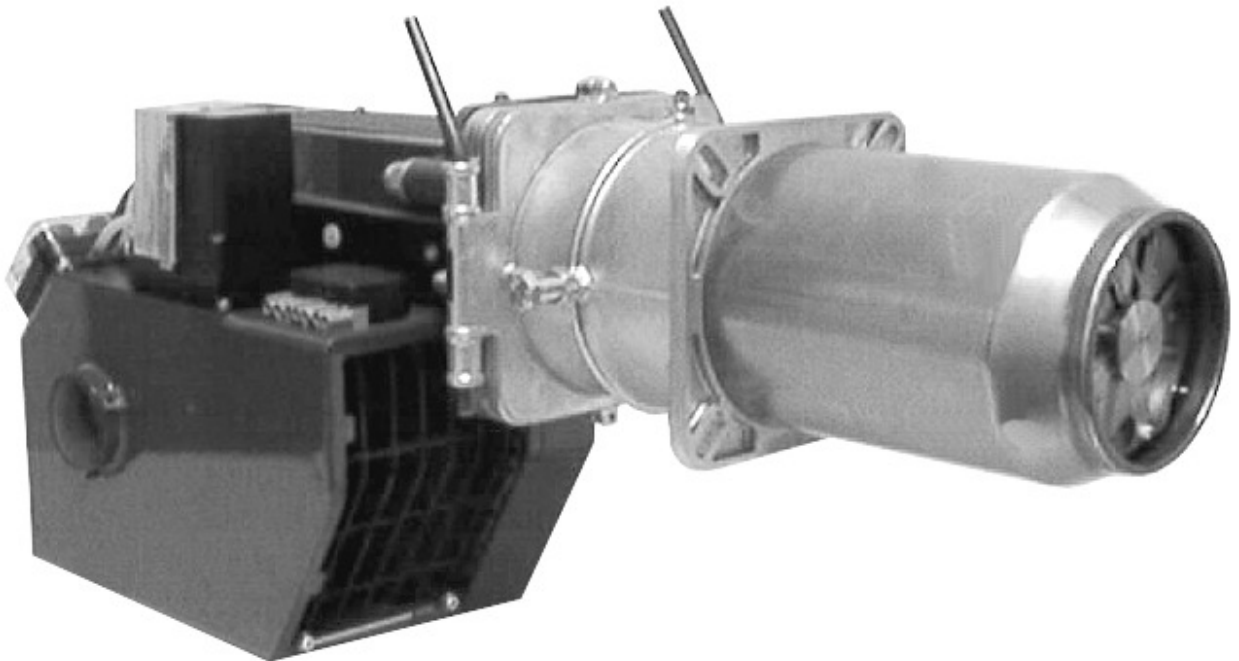


Technical Information

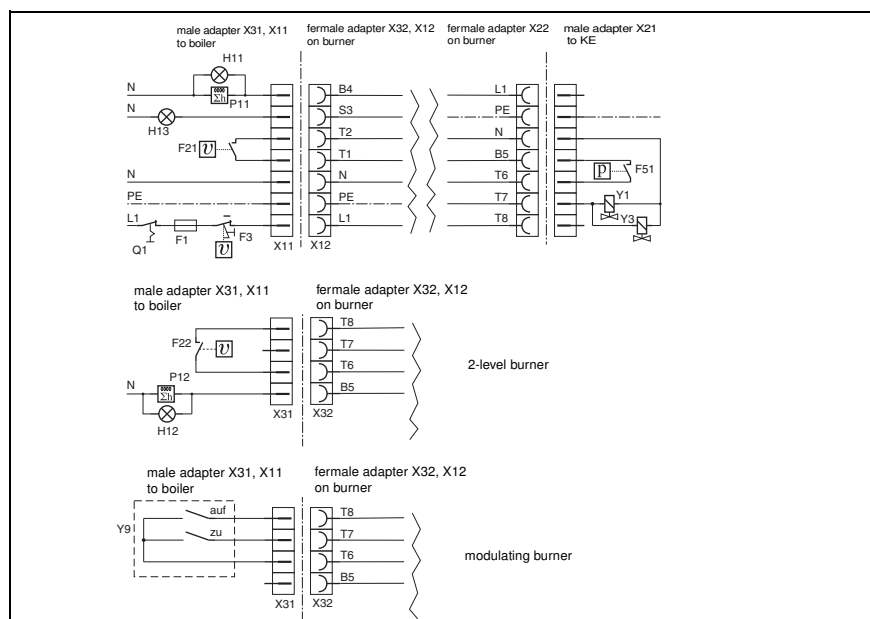
MG10-LN

Issued in July 2005
Right reserved to effect techn. modifications
in the interest of product improvement.

Gas



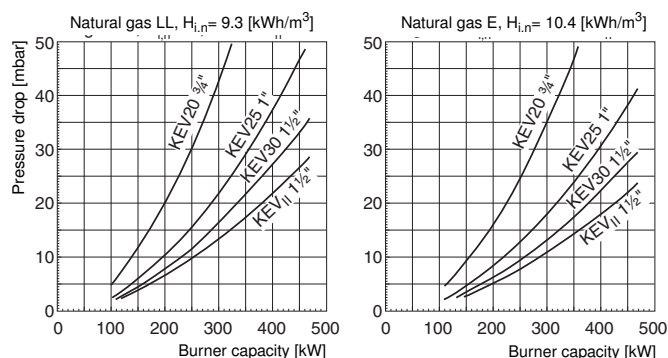
Electrical connection



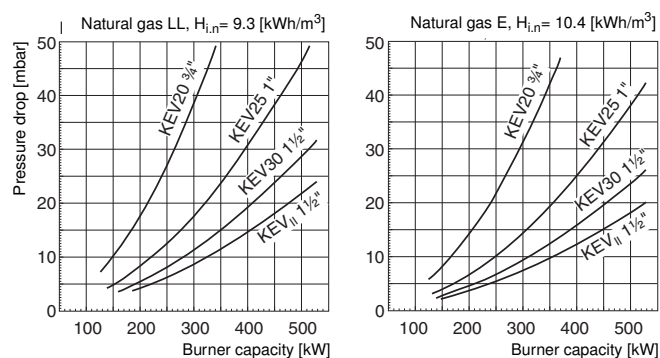
- F1 Ext. fuse boiler control
- F21, F22 Ext. temp. controller 1st stage / 2nd stage
- F3 Ext. safety temperature limiter
- F51 Gas-pressure monitor
- Q1 Main heating switch
- H11, H12 Ext. pilot lamp
- H13 Ext. fault message lamp
- L1 Phase
- P11, P12 Time meter 1st stage / 2nd stage
- Y1, Y2 Solenoid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

Selection diagrams

MG10/1-LN



MG10/2-LN



Technical specifications

Technical data	Burner type	
	MG10/1-LN	MG10/2-LN
Min. burner output in kW	95	125
Max. burner output in kW	420	530
Gas type	Natural gas LL + E	
Method of operation	2-stage sliding, modulating	
Voltage	1 / N / PE ~ 50 Hz 220 - 240 V	
max. current consumption start/operation	4 A max. / 2.3 A eff.	6.5 A max. / 3.5 A eff.
Electric motor power (at 2800min ⁻¹) in kW	0.370	0.75
Flame failure controller	Ionisation	
Control box	DMG 972	
Air pressure monitor	LGW 50	
Weight in kg	45	46
Noise emission in dB (A)	≤ 78	≤ 78

Adjustment tables

MG10/1-LN Burner output		Boiler output at $\eta = 92\%$	Position air flap		Position Burner head	Natural gas LL: $H_{i,n} = 9,3 \text{ [kWh/m}^3\text{]}$			
Stage 2	Stage 1	Stage 2	ST2	ST1		Gas nozzle pressure		Gas throughput	
[kW]	[kW]	[kW]	[°]	[°]	[mm]	2nd stage	1st stage	2nd stage	1st stage
						[mbar]	[mbar]	[m³/h]	[m³/h]
180	95	162	10	1	15	3,8	1,2	20,0	10,5
240	130	216	20	5	15	7,2	2,1	26,6	14,4
260	140	234	20	5	10	7,0	2,0	28,8	15,5
300	160	270	28	7	10	9,8	2,4	33,3	17,7
340	180	306	34	9	5	11,5	3,0	37,7	20,0
380	200	342	43	11	0	13,8	3,8	42,1	22,2
420	220	378	80	14	0	16,7	4,6	46,6	24,4

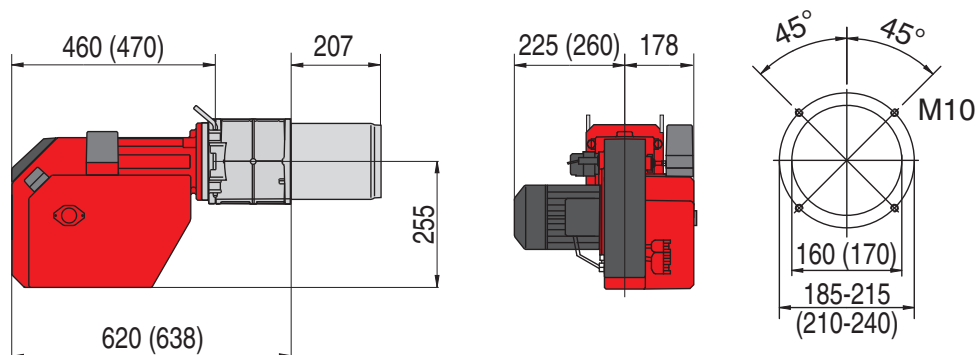
MG10/1-LN Burner output		Boiler output at $\eta = 92\%$	Position air flap		Position Burner head	Natural gas E: $H_{i,n} = 10,4 \text{ [kWh/m}^3\text{]}$			
Stage 2	Stage 1	Stage 2	ST2	ST1		Gas nozzle pressure		Gas throughput	
[kW]	[kW]	[kW]	[°]	[°]	[mm]	2nd stage	1st stage	2nd stage	1st stage
						[mbar]	[mbar]	[m³/h]	[m³/h]
180	95	162	10	1	15	2,9	0,9	17,8	9,4
240	130	216	20	5	15	5,5	1,6	23,8	12,9
260	140	234	20	5	10	5,4	1,5	25,8	13,9
300	160	270	28	7	10	7,5	1,8	29,7	15,9
340	180	306	34	9	5	8,8	2,3	33,7	17,8
380	200	342	43	11	0	10,6	2,9	37,7	19,8
420	220	378	80	14	0	12,8	3,5	41,6	21,8

MG10/2-LN Burner output		Boiler output at $\eta = 92\%$	Position air flap		Position Burner head	Natural gas LL: $H_{i,n} = 9,3 \text{ [kWh/m}^3\text{]}$			
Stage 2	Stage 1	Stage 2	ST2	ST1		Gas nozzle pressure		Gas throughput	
[kW]	[kW]	[kW]	[°]	[°]	[mm]	2nd stage	1st stage	2nd stage	1st stage
						[mbar]	[mbar]	[m³/h]	[m³/h]
250	125	230	17	1	5	4,0	1,7	27,7	13,9
300	150	276	24	4	5	6,0	2,0	33,3	16,6
360	180	331	25	5	0	7,7	3,0	39,9	20,0
440	220	405	38	9	0	12,2	4,4	48,8	24,4
500	250	460	57	12	0	14,5	5,0	55,4	27,7
530	270	488	90	14	0	15,5	5,2	58,8	29,9

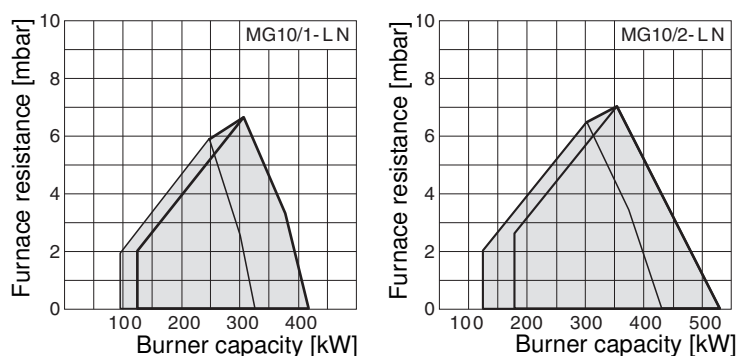
MG10/2-LN Burner output		Boiler output at $\eta = 92\%$	Position air flap		Position Burner head	Natural gas E: $H_{i,n} = 10,4 \text{ [kWh/m}^3\text{]}$			
Stage 2	Stage 1	Stage 2	ST2	ST1		Gas nozzle pressure		Gas throughput	
[kW]	[kW]	[kW]	[°]	[°]	[mm]	2nd stage	1st stage	2nd stage	1st stage
						[mbar]	[mbar]	[m³/h]	[m³/h]
250	125	230	17	1	5	3,1	1,3	24,8	12,4
300	150	276	24	4	5	4,7	1,6	29,7	14,9
360	180	331	25	5	0	6,0	2,4	35,7	17,8
440	220	405	38	9	0	9,5	3,4	43,6	21,8
500	250	460	57	12	0	11,3	3,9	49,6	24,8
530	270	488	90	14	0	12,1	4,1	52,5	26,8

Overall dimensions / Boiler connection measures

All dimensions in mm (dimensions in brackets MG10/2-LN)



Working range



DVGW tested working range according to DIN EN 676 and LRV '92.

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