

Gassero

technology for your comfort

Gas Burners

For Natural Gas and LPG



ALG SERIES 30-1.861 KW



ALG Series Gas Burners

Advanced Technology

Gas burners are designed as a result of long term tests and by professionals experienced on gas behaviour. The burners produced using advanced technology have the same operation efficiency with natural gas and LPG. New models have been developed in accordance with Energy Performance Regulation in Buildings and a wide range of products are available. Gassero gas burners have CE marking.

Maximum Safety and Reliability

All burners operate with natural gas or LPG in accordance with the regulations stated in the European gas directives. Special care is taken for safety during production and each burner is factory tested. First class safety equipment is used for burners.

High Efficiency – Low Fuel Consumption

The perfect air-gas mixture, proper combustion and high-efficiency are obtained through specially designed combustion head and air diffuser. The same amount of energy is maintained with less gas supply. As a consequence, maximum economy is provided in gas consumption.

Environmentally Friendly

They operate silently with their high-efficiency fan and perfect combustion is provided even for the boilers with high back pressure. Specially designed combustion head and air diffuser assure highly efficient combustion and operation with low CO and NOx emission. Thus, the pollution is less.

Wide Model Range and the Complete Series

Gassero Gas Burners provide burners within the 3,1 - 194 m³/h (29,5 - 1.861 kW) capacity range, which are suitable for natural gas and LPG combustion, are single and double stage and with modulation, thus allowing for the most convenient and economical choice with 19 models and 53 types in total.

Complete Delivery

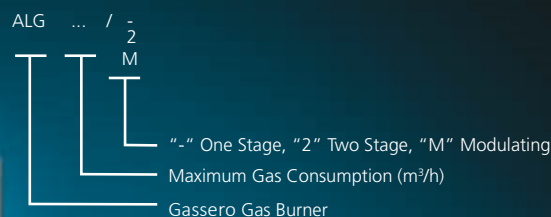
The burners are delivered complete with the following gas line equipment.

- Filter + Regulator
- Safety Solenoid Valve – Class A
- Operating Solenoid Valve – Class A
- Minimum Gas Pressure Pressurestat
- Air Pressure Pressurestat
- Gas leak control system (Standard in ALG 200/M, optional in other models.)

Boiler – Burner Conformity

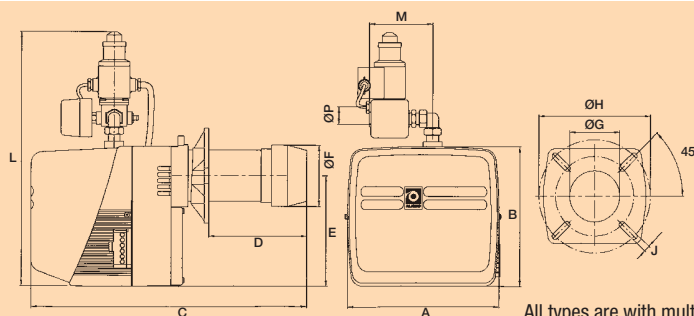
The most important factors affecting the combustion quality are correct burner selection for the boiler, burner flame length and diameter conformity with combustion chamber. Gassero Burners operate properly and silently for both high and low combustion chamber pressure boilers thanks to their high-performance fans. The best boiler - burner match is determined and certified after long term testing.

Model Notation



Square Body, One/Two Stage Burners

ALG 7...36/2



All types are with multiblock units.

Dimensions (mm)

TYPE	A	B	C	D		E	ØF	ØG	ØH		J	L	M	ØP Gas Connection	Gas Pressure* Operation Range (mbar)	Maximum Gas Pressure (mbar)
				Min.	Max.				Min.	Max.						
ALG 7-1/2"	280	247	379	-	89	195	80	85	136	161	M8	442	200	1/2"	6,5 - 17,1	360
ALG 9-1/2"	280	247	492	90	175	195	108	95	140	200	M8	453	216	1/2"	5,2 - 9,6	360
ALG 16-1/2"	309	282	499	60	143	217	108	115	140	200	M8	473	218	1/2"	7,3 - 30	360
ALG 16-1"														1"	3,8 - 14,4	360
ALG 16DM-1/2"	309	282	499	60	143	217	108	115	140	200	M8	473	218	1/2"	7,3 - 30	360
ALG 16DM-1"														1"	3,8 - 14,4	360
ALG 16/2-1/2"	309	282	499	60	143	217	108	115	140	200	M8	543	218	1/2"	6,4 - 31,5	360
ALG 16/2-3/4"														3/4"	4,3 - 20,1	360
ALG 27-1/2"	359	349	858	100	265	274	140	155	174	226	M10	637	244	1/2"	16,5 - 38,5	360
ALG 27-1"														1"	6,5 - 14,5	360
ALG 27/2-3/4"	359	349	858	100	265	274	140	155	174	226	M10	712	246	3/4"	8,8 - 24	360
ALG 27/2-1"														1"	5,9 - 15,5	360
ALG 30-1/2"	420	420	873	110	320	350	140	155	174	226	M10	743	329	1/2"	29,5 - 72	360
ALG 30-1 1/4"														1 1/4"	9 - 20	360
ALG 36-3/4"	420	420	873	110	320	350	140	155	174	226	M10	731	255	3/4"	30,2 - 50,7	360
ALG 36-1 1/2"														1 1/2"	8,2 - 13	360
ALG 36/2-3/4"	420	420	873	110	350	350	140	155	174	226	M10	806	255	3/4"	16,5 - 54,5	360
ALG 36/2-1 1/2"														1 1/2"	5 - 14	360

Technical Specifications

TYPE	CAPACITY (m³/h)		HEAT OUTPUT (kW)		HEAT OUTPUT (kcal/h)		MOTOR		WEIGHT** (kg)	PACKAGE DIMENSIONS (mm)	POWER SUPPLY
	Min.	Max.	Min.	Max.	Min.	Max.	Rev (rpm)	Power (kW)			
ALG 7	3,1	6,8	29,5	64,8	25.370	55.728	2.750	0,1	10,6	397 x 562 x 334	~1 220-230 V 50 Hz
ALG 9	4,3	8,3	41,2	80	35.432	68.800	2.750	0,1	12,7	447 x 592 x 334	
ALG 16	6,5	16,3	62,8	156	54.008	134.160	2.770	0,15	15	482 x 672 x 364	
ALG 16DM	6,5	16,3	62,8	156	54.008	134.160	2.770	0,15	15,6	482 x 672 x 364	
ALG 16/2	6,5	16,3	62,8	156	54.008	134.160	2.770	0,15	15,6	482 x 672 x 364	
ALG 27	12,8	21,3	123	204,5	105.780	175.870	2.800	0,25	30,9	586 x 922 x 459	
ALG 27/2	11,5	22	110,6	211,7	95.116	182.062	2.800	0,25	32,5	586 x 922 x 459	
ALG 30	17,93	30,23	170	290	146.200	249.400	2.800	0,37	37,7	617 x 937 x 534	
ALG 36	26	35,4	248,9	340	214.054	292.400	2.800	0,37	37,7	617 x 937 x 534	
ALG 36/2	18	38	172,7	365	148.522	313.900	2.800	0,37	35,5	617 x 937 x 534	

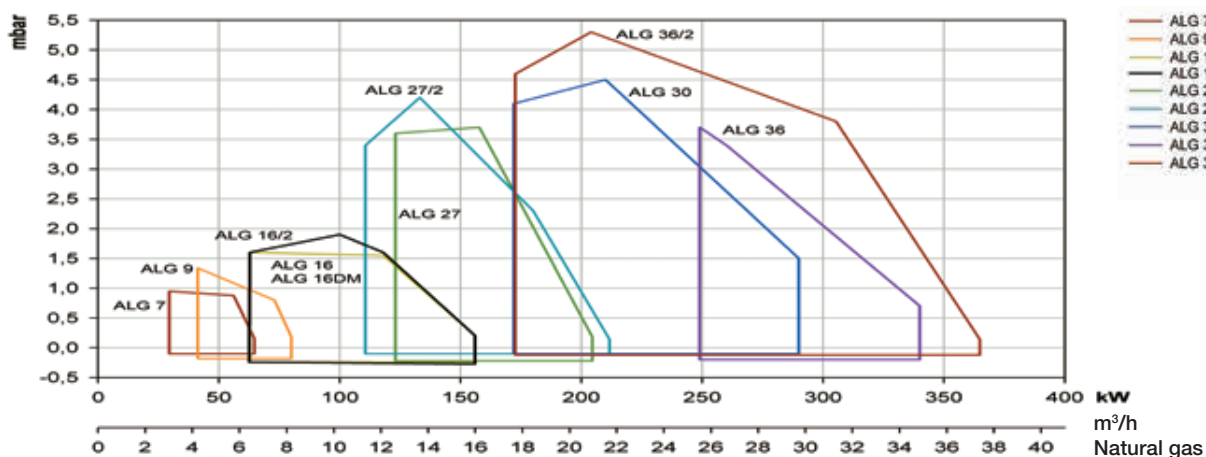
* Boiler combustion chamber pressure in mbar must be added to the gas operating pressure when choosing burners.

** Weight excluding package and including gas line.

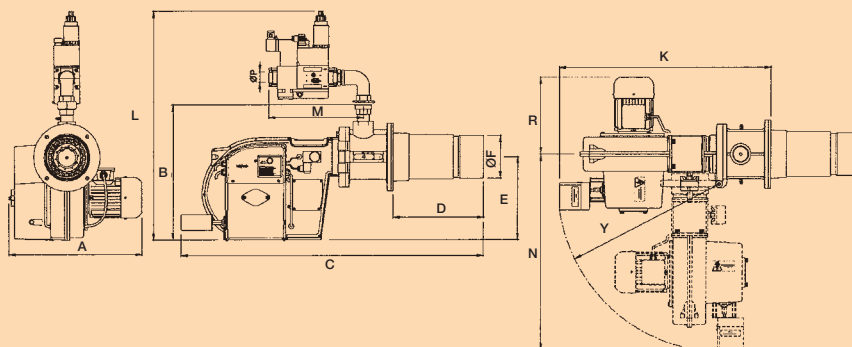
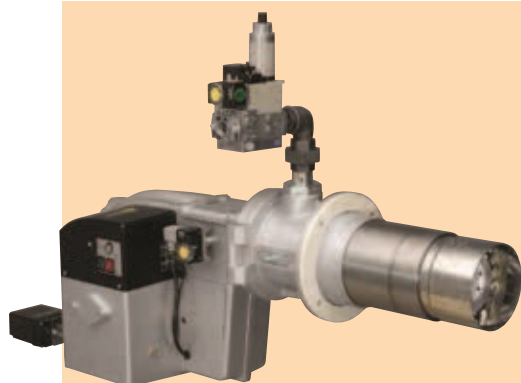
Lower calorific value of natural gas: 8.250 kcal/m³

Capacity values are provided for normal conditions (15°C, 1.013 mbar).

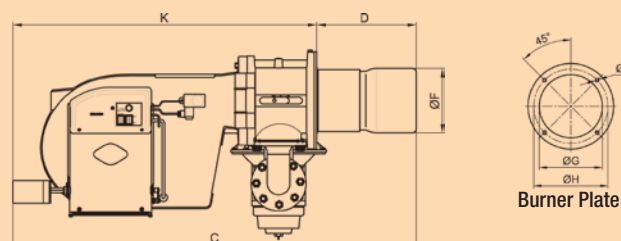
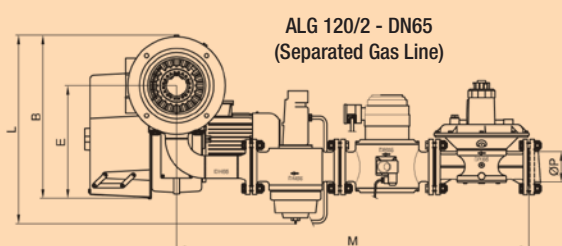
Capacity – Pressure Curves



Volute Body, Two Stage Burners

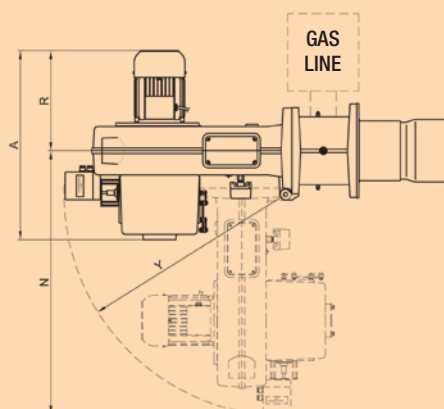
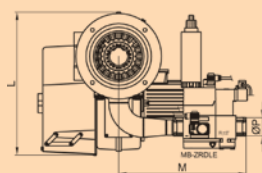
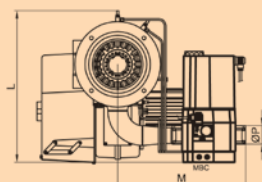


ALG 77/2-DN65 and 94/2-DN65 types, different from the pictures above, have sectional gas lines.



ALG 120/2 - 2" MBC 1200
(Multiblock)

ALG 120/2 - OTHER TYPES
(MBZRDLE Multiblock)



Dimensions (mm)

TYPE	A	B	C		D		E	ØF	ØG	ØH	ØJ	K	L	M	N	R	Y	ØP Gas Connection	Gas Pressure* Operation Range (mbar)	Maximum Gas Pressure (mbar)
			Min.	Max.	Min.	Max.														
ALG 60/2-3/4"	524	514	1.190	1.224	357	391	318	163	190	225	14	833	767,5	239	753	295	1.275,5	3/4"	27,5 - 110,5	360
ALG 60/2-1 1/2"	524	518	1.190	1.224	357	391	318	163	190	225	14	833	845,5	372	753	295	1.275,5	1 1/2"	6,5 - 23	360
ALG 60/2-2"	524	518	1.190	1.224	357	391	318	163	190	225	14	833	917	388,5	753	295	1.275,5	2"	5 - 20	360
ALG 60/2 LPG-1"	524	514	1.190	1.224	357	391	318	163	190	225	14	833	809,5	378	753	295	1.275,5	1"	7,7 - 29	360
ALG 77/2-1"	524	518	1.190	1.224	357	391	318	171,5	190	225	14	833	809,5	279	753	295	1.275,5	1"	19 - 86,5	360
ALG 77/2-2"	524	518	1.190	1.224	357	391	318	171,5	190	225	14	833	917	388,5	753	295	1.275,5	2"	5 - 22	360
ALG 77/2-DN65	524	518	1.190	1.224	357	391	318	171,5	190	225	14	833	962	992	753	295	1.275,5	2 1/2"	4,5 - 18	360
ALG 77/2 LPG-1 1/4"	524	514	1.190	1.224	357	391	318	171,5	190	225	14	833	809,5	279	753	295	1.275,5	1 1/4"	5 - 23	360
ALG 94/2-1 1/2"	524	518	1.205	1.239	372	406	318	184	190	225	14	833	845,5	372	753	295	1.275,5	1 1/2"	12 - 34	360
ALG 94/2-2"	524	518	1.205	1.239	372	406	318	184	190	225	14	833	917	388,5	753	295	1.275,5	2"	8,7 - 28	360
ALG 94/2-DN65	524	518	1.205	1.239	372	406	318	184	190	225	14	833	891	1129	753	295	1.275,5	2 1/2"	4,8 - 15,7	360
ALG 94/2 LPG-2"	524	518	1.205	1.239	372	406	318	184	190	225	14	833	917	388,5	753	295	1.275,5	2"	5,4 - 18,7	360
ALG 120/2-1 1/2"	659	548	1.336		322		379	222	250	285	14	1.010	527	488	908	348	755	1 1/2"	10,5 - 38,7	360
ALG 120/2-2" MB-ZRDLE 420	659	548	1.336		322		379	222	250	285	14	1.010	527	488	908	348	755	2"	8 - 33	360
ALG 120/2-2" MBC 1200	659	548	1.336		322		379	222	250	285	14	1.010	546	490	908	348	755	2"	4,5 - 19,7	360
ALG 120/2-DN65	659	548	1.336		322		379	222	250	285	14	1.010	636	1.183	908	348	755	DN65	3,5 - 17	360
ALG 120/2 LPG-1 1/2"	659	548	1.336		322		379	222	250	285	14	1.010	527	488	908	348	755	1 1/2"	7 - 26	360

* Boiler combustion chamber pressure in mbar must be added to the gas operating pressure when choosing burners.

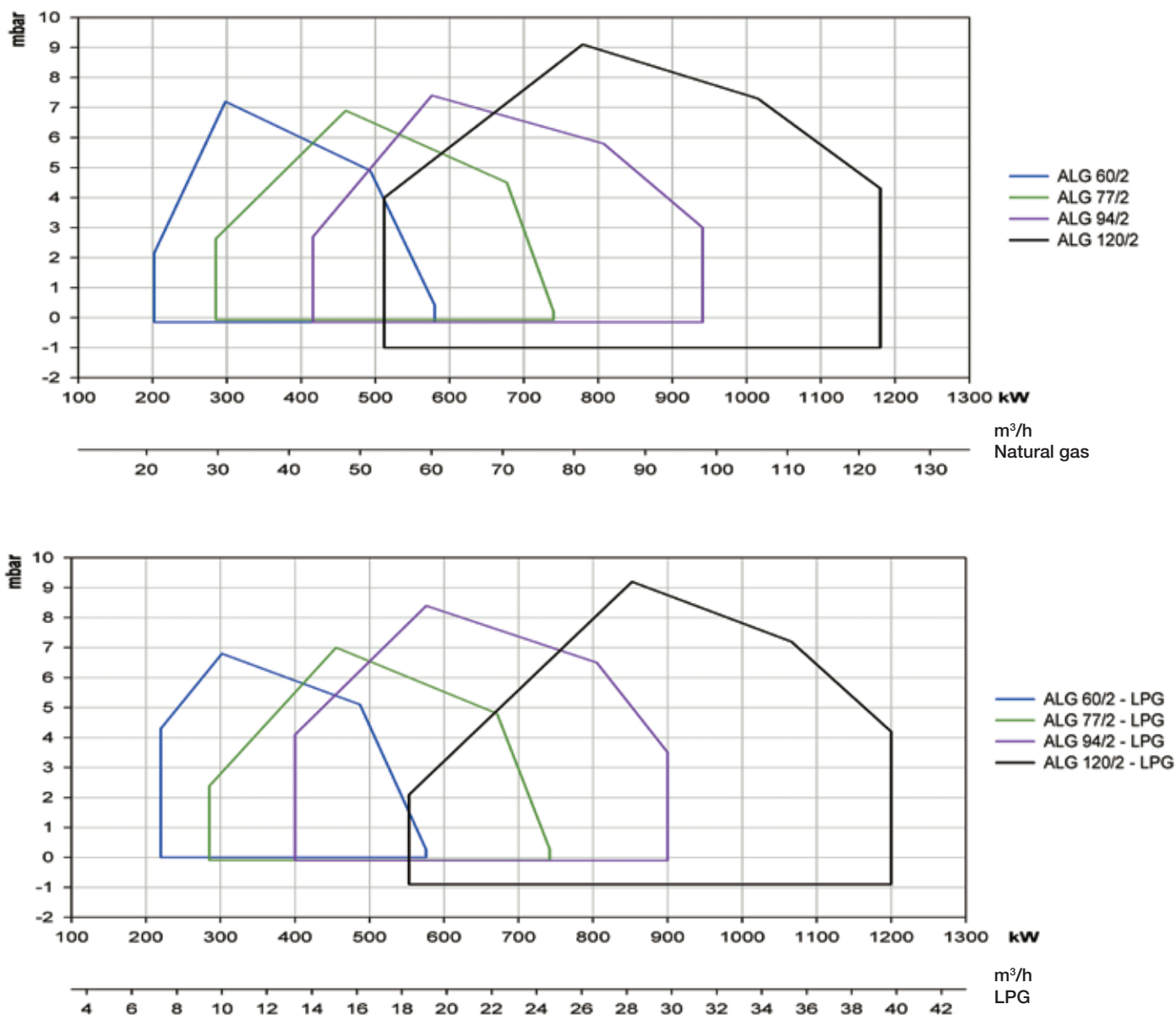
Technical Specifications

TYPE	CAPACITY (m³/h)		HEAT OUTPUT (kW)		HEAT OUTPUT (kcal/h)		MOTOR		WEIGHT** (kg)	PACKAGE DIMENSIONS (mm)	POWER SUPPLY
	Min.	Max.	Min.	Max.	Min.	Max.	Rev (rpm)	Power (kW)			
ALG 60/2-3/4"	21,06	60,46	202	580	173.720	498.800	2.780	0,75	50,5	625 x 1.300 x 685	~3 380 /400 V 50 Hz
ALG 60/2-1 1/2"	21,06	60,46	202	580	173.720	498.800	2.780	0,75	53,6	625 x 1.300 x 685	
ALG 60/2-2"	21,06	60,46	202	580	173.720	498.800	2.780	0,75	55,7	625 x 1.300 x 685	
ALG 60/2 LPG-1"	7,29	19,08	220	576	189.200	495.360	2.780	0,75	51,4	625 x 1.300 x 685	
ALG 77/2-1"	29,71	77,14	285	740	245.100	636.400	2.800	1,1	52,5	625 x 1.300 x 685	
ALG 77/2-2"	29,71	77,14	285	740	245.100	636.400	2.800	1,1	56,7	625 x 1.300 x 685	
ALG 77/2-DN65	29,71	77,14	285	740	245.100	636.400	2.800	1,1	101,6	625 x 1.300 x 685	
ALG 77/2 LPG-1 1/4"	9,44	24,58	285	742	245.100	638.120	2.800	1,1	52,5	625 x 1.300 x 685	
ALG 94/2-1 1/2"	43,36	98,09	416	941	357.760	809.260	2.800	1,1	56,9	625 x 1.300 x 685	
ALG 94/2-2"	43,36	98,09	416	941	357.760	809.260	2.800	1,1	56,9	625 x 1.300 x 685	
ALG 94/2-DN65	43,36	98,09	416	941	357.760	809.260	2.800	1,1	101,8	760 x 1.680 x 690	
ALG 94/2 LPG-2"	13,25	29,82	400	900	344.000	774.000	2.800	1,1	56,9	625 x 1.300 x 685	
ALG 120/2-1 1/2"	53,4	123	512	1.180	440.320	1.014.800	2.840	2,2	78	550 x 1.700 x 700	
ALG 120/2-2" MB-ZRDLE 420	53,4	123	512	1.180	440.320	1.014.800	2.840	2,2	81,2	550 x 1.700 x 700	
ALG 120/2-2" MBC 1200	53,4	123	512	1.180	440.320	1.014.800	2.840	2,2	89,3	550 x 1.700 x 700	
ALG 120/2-DN65	53,4	123	512	1.180	440.320	1.014.800	2.840	2,2	133,9	550 x 1.700 x 700	
ALG 120/2 LPG-1 1/2"	18,3	39,7	553	1.200	475.580	1.032.000	2.840	2,2	78	550 x 1.700 x 700	

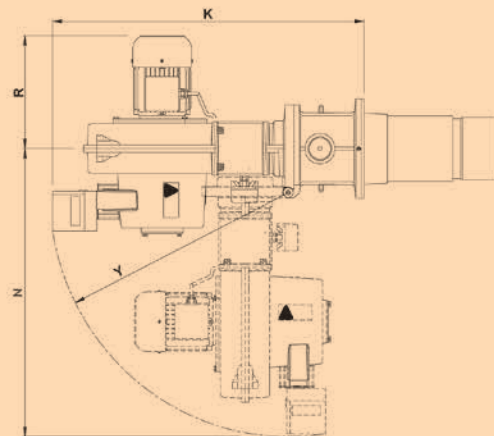
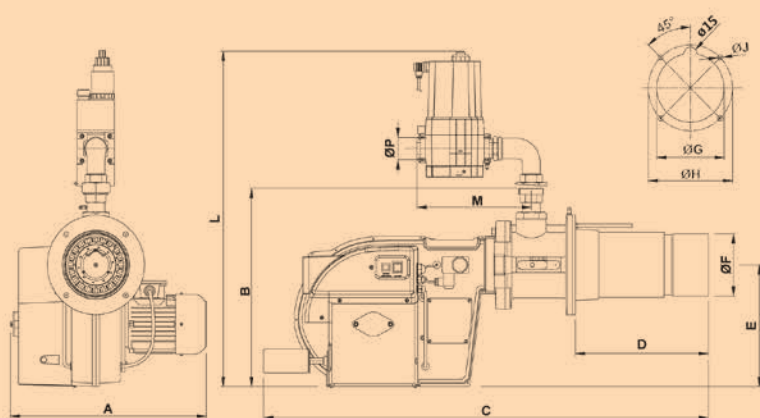
** Weight excluding package and including gas line.

Lower calorific value of natural gas: 8.250 kcal/m³, Lower calorific value of mix LPG 25.960 kcal/m³
Capacity values are provided for normal conditions (15°C, 1.013 mbar).

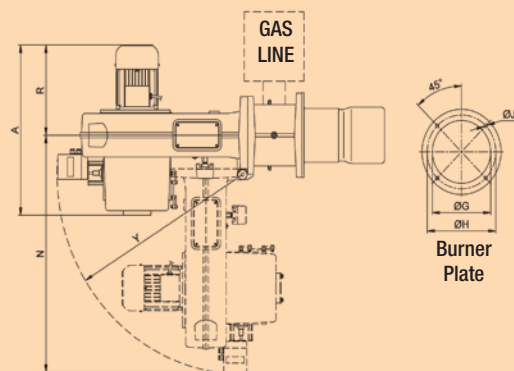
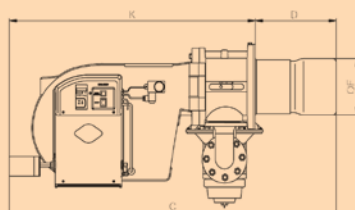
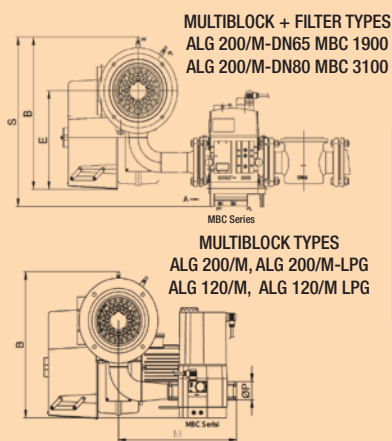
Capacity – Pressure Curves



Volute Body, Modulating Burners



ALG 60/M-77/M-94/M types are with multiblock units.



ALG 120/M-200/M types are with multiblock units

Dimensions (mm)

TIPLER	A	B	C		D		E	ØF	ØG	ØH	ØJ	K	L	M	N	R	Y	ØP Gas Connection	Gas Pressure* Operation Range (mbar)	Maximum Gas Pressure (mbar)
			Min.	Max.	Min.	Max.														
ALG 60/M-1 1/4" MBC 300	524	514	1.190	1.224	357	391	318	163	190	225	14	833	809,5	279	753	295	1.275,5	1 1/4"	7,5 - 42,5	360
ALG 60/M-2" MBC 700	524	518	1.190	1.224	357	391	318	163	190	225	14	833	809,5	279	753	295	1.275,5	2"	4 - 21,7	360
ALG 60/M LPG-1 1/4" MBC 300	524	514	1.190	1.224	357	391	318	163	190	225	14	833	809,5	279	753	295	1.275,5	1 1/4"	5,5 - 17,5	360
ALG 77/M-1 1/4" MBC 300	524	514	1.190	1.224	357	391	318	171,5	190	225	14	833	809,5	279	753	295	1.275,5	1 1/4"	8 - 54	360
ALG 77/M-2" MBC 700	524	518	1.190	1.224	357	391	318	171,5	190	225	14	833	917	388,5	753	295	1.275,5	2"	5 - 26	360
ALG 77/M-2" MBC 1200	524	518	1.190	1.224	357	391	318	171,5	190	225	14	833	917	388,5	753	295	1.275,5	2"	5 - 19,3	360
ALG 77/M LPG-1 1/4" MBC 300	524	514	1.190	1.224	357	391	318	171,5	190	225	14	833	809,5	279	753	295	1.275,5	1 1/4"	6 - 22,8	360
ALG 94/M-1 1/4" MBC 300	524	514	1.205	1.239	372	406	318	184	190	225	14	833	809,5	279	753	295	1.275,5	1 1/4"	15,5 - 90,8	360
ALG 94/M-2" MBC 1200	524	518	1.205	1.239	372	406	318	184	190	225	14	833	917	388,5	753	295	1.275,5	2"	3,5 - 19,5	360
ALG 94/M LPG-1 1/4" MBC 300	524	514	1.205	1.239	372	406	318	184	190	225	14	833	809,5	279	753	295	1.275,5	1 1/4"	6,5 - 21,5	360
ALG 120/M-2" MBC 700	659	584	1336		326		379	222	256	285	14	1010,5	-	412	938	348	755	2"	9,8 - 41,8	360
ALG 120/M-2" MBC 1200	659	584	1336		326		379	222	256	285	14	1010,5	-	490	938	348	755	2"	4,9 - 19,2	360
ALG 120/M LPG-2" MBC 700	659	584	1336		326		379	222	256	285	14	1010,5	-	412	938	348	755	2"	5,5 - 20	360
ALG 200/M-2" MBC 700	659	584	1363		341		379	250	256	285	14	1022	-	412	949	348	766	2"	19,2 - 89,5	360
ALG 200/M-2" MBC 1200	659	584	1363		341		379	250	256	285	14	1022	-	490	949	348	766	2"	9 - 32,5	360
ALG 200/M-DN65 MBC 1900	659	584	1363		341		379	250	256	285	14	1022	-	840	949	348	766	DN65	8 - 25	360
ALG 200/M-DN80 MBC 3100	659	584	1363		341		379	250	256	285	14	1022	-	890	949	348	766	DN80	6,5 - 19,6	360
ALG 200/M LPG-2" MBC 700	659	584	1363		341		379	250	256	285	14	1022	-	412	949	348	766	2	7,3 - 28,5	360

* Boiler combustion chamber pressure in mbar must be added to the gas operating pressure when choosing burners.

Technical Specifications

TYPE	CAPACITY (m ³ /h)		HEAT OUTPUT (kW)		HEAT OUTPUT (kcal/h)		MOTOR		WEIGHT** (kg)	PACKAGE DIMENSIONS (mm)	POWER SUPPLY
	Min.	Max.	Min.	Max.	Min.	Max.	Rev (rpm)	Power (kW)			
ALG 60/M	21,1	60,5	202	580	174.075	499.125	2.780	0,75	45	610 x 1.220 x 585	~3 380 /400 V 50 Hz
ALG 60/M LPG	6,7	19,2	202	580	174.075	499.125	2.780	0,75	45	610 x 1.220 x 585	
ALG 77/M	29,7	77,7	285	745	245.025	641.025	2.800	1,10	45	610 x 1.220 x 585	
ALG 77/M LPG	9,4	24,6	285	745	245.025	641.025	2.800	1,10	45	610 x 1.220 x 585	
ALG 94/M	43,4	98,1	416	941	385.050	809.325	2.800	1,10	45	610 x 1.220 x 585	
ALG 94/M LPG	13,8	31,1	416	941	385.050	809.325	2.800	1,10	45	610 x 1.220 x 585	
ALG 120/M	53,4	123	512	1.180	440.320	1.014.800	2.840	2,2	73	700 x 1.380 x 600	
ALG 120/M LPG	18,3	39,7	553	1.200	475.580	1.032.000	2.840	2,2	73	700 x 1.380 x 600	
ALG 200/M*	88	194	844	1.861	726.000	1.600.500	2.840	3	73	700 x 1.380 x 600	
ALG 200/M LPG	27,9	61,6	844	1.861	726.000	1.600.500	2.840	3	73	700 x 1.380 x 600	

* The package dimensions for ALG 200/M - DN65 and ALG 200/M - DN80 is 1100 x 1460 x 600 mm.

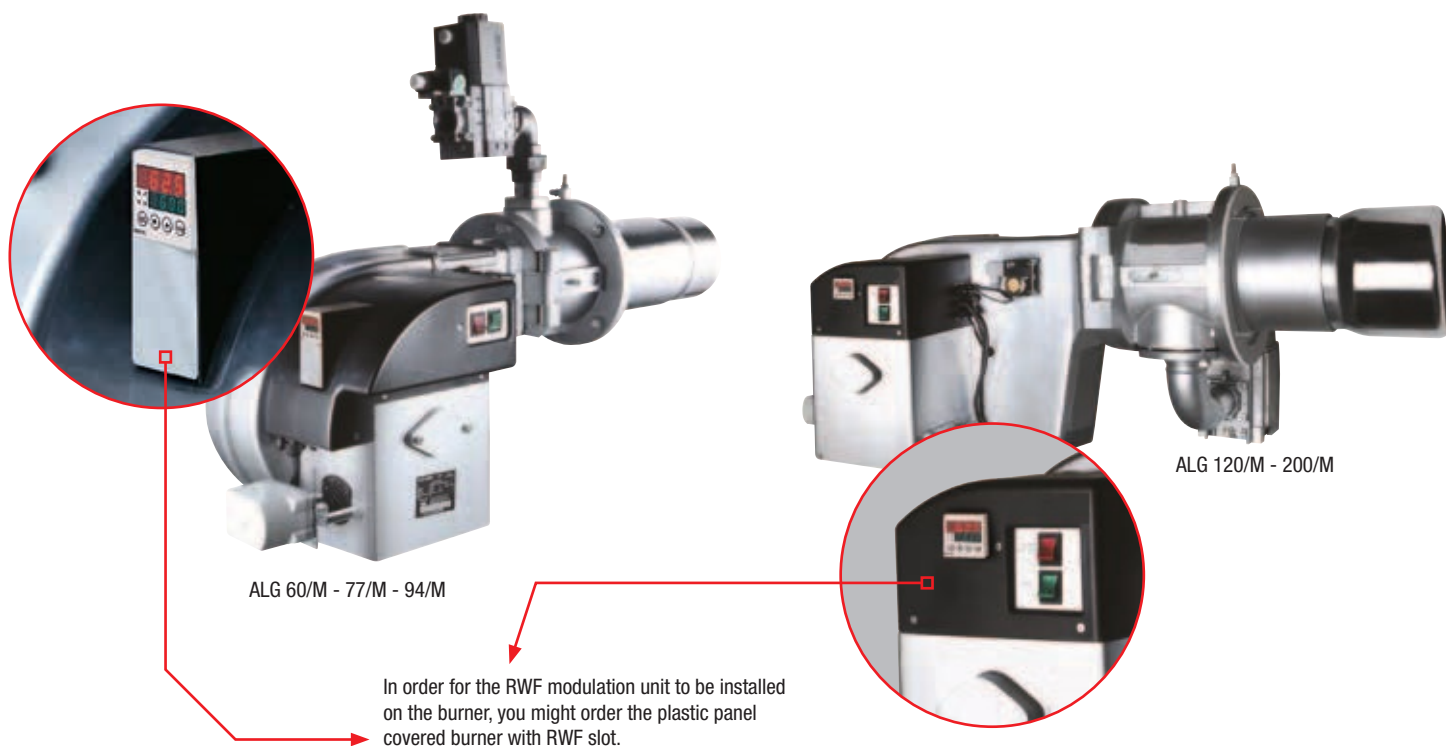
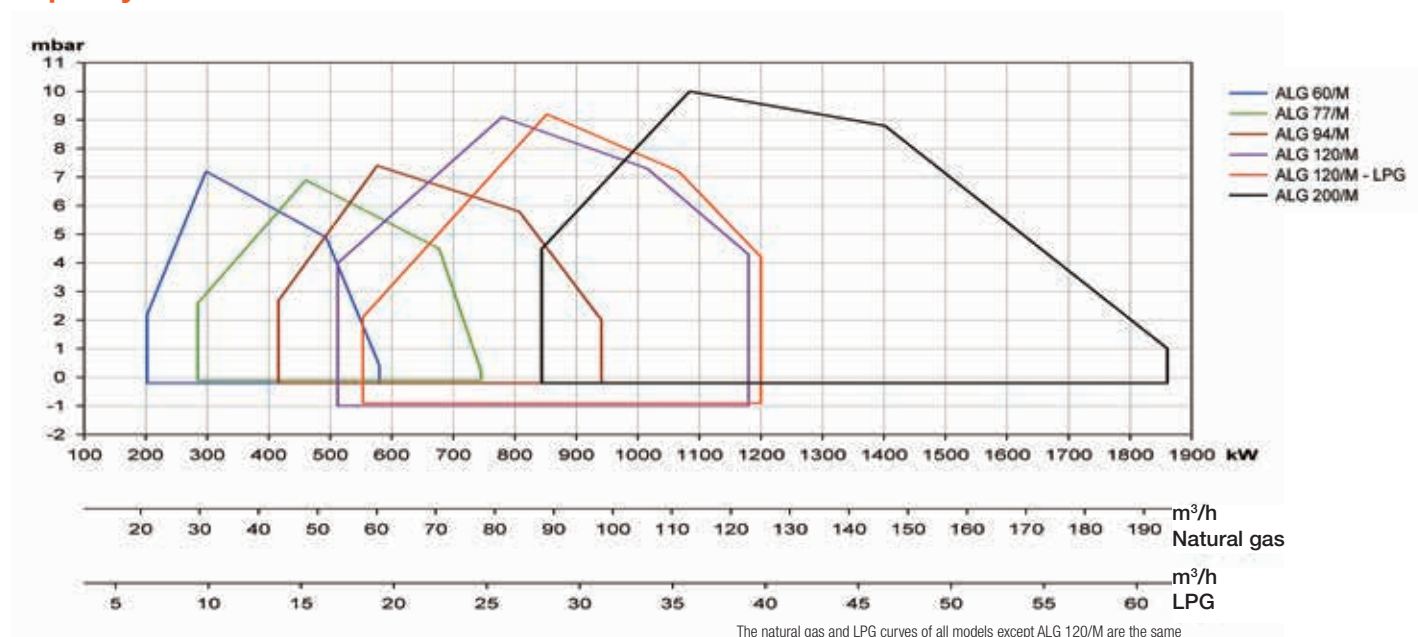
** Weight excluding package and the gas line.

Lower calorific value of natural gas: 8.250 kcal/m³,

Lower calorific value of mix LPG 25.960 kcal/m³

Capacity values are provided for normal conditions (15°C, 1.013 mbar).

Capacity – Pressure Curves



Advanced Features



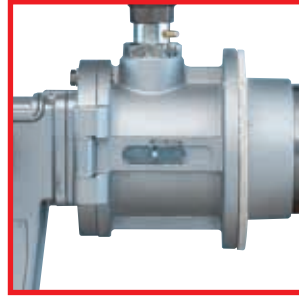
Air Adjustment

Single stage with damper motor burners, double stage burners and modulating burners have servomotors for controlling the air damper; thus, proper gas-air mixture is obtained. Therefore a stable, proper and highly efficient combustion is obtained.



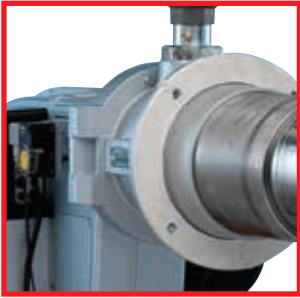
Silent

More silent operation compared to equivalent burners. Square body burners have special air suction and noise reducing protective cover system. Volute body burners operate silently with their special aluminium alloy body and aerodynamic structure.



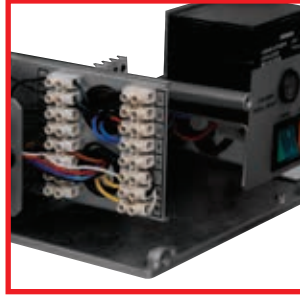
Combustion Head and Air Diffuser Adjustment

For square/volute body burners, combustion head can be adjusted while the burner is in operation. The adjustment might be done for the volute type by the help of the screws on both sides of the gas inlet casing and for the square type, by the help of the adjustment screws.



Ease of Assembly

Sliding flange for the square body type and special hinged flange system for the volute body type allow for the easy installation of the burner to the boiler and also for the quick and accurate maintenance.



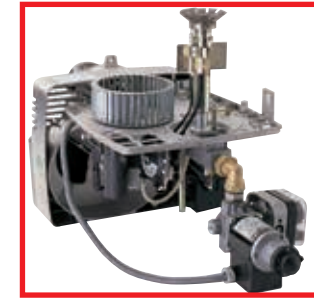
Ease of Electrical Connection

All measures are taken on burners in order to guarantee easy and quick electrical connections. To prevent possible connection failures, electrical connections of the main components are designed with sockets.



Automatic Air Flap

The air flap blocks the air flow and delays the cooling of the boiler, prevents possible thermal shocks and reduces gas consumption by assuring that the heat remains within the boiler (in Square types).



Ease of Service and Maintenance

Burner construction is designed so as to allow each component to be reached without difficulty. For the square body types; combustion head can be reached, adjustment and maintenance of the ionization and ignition electrodes without separating the burner from the main gas supply and the boiler.

Burner Modulation Unit (RWF 50)



Burner Modulation Unit functions as a thermostat in modulating burners. The opening of the air valves is determined with reference to the temperature or pressure value adjusted through Burner Modulation Unit. The adjustment value is compared to the current value; a command is conveyed from the modulation unit to the burner control unit and the opening of the damper motor air valves is adjusted. Modulating gas valve adjusts the gas flow amount in accordance with the opening of air valves.

Temperature and pressure sensors to use with:

- 30...130°C temperature sensor
- 20...400°C temperature sensor
- 0...4 bar pressure sensor
- 0...10 bar pressure sensor
- 0...25 bar pressure sensor

RWF50 modulation unit and sensors must be ordered separately.



The right to amend specifications under technologic developments is reserved

Gassero
technology for your comfort

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