

PG30 - PG60
PG70 - PG81

Double-stage
Light oil Burners

MANUAL OF INSTALLATION - USE - MAINTENANCE

CIB UNIGAS

BURNERS - BRUCIATORI - BRULERS - BRENNER - QUEMADORES - ГОРЕЛКИ

Technical specifications

BURNERS		PG30	PG60	PG70	PG81
Output	min. -max. kW	105 - 383	151 - 791	291 - 1047	264-1900
Fuel		Light oil			
Viscosity	cSt @ 40°C	2 - 7.4			
Density	kg/m ³	0.84			
Light oil train inlet pressure	max. bar	1			
Light oil rate	min. -max. kg/h	8.8 - 32	13 - 67	25 - 88	22-160
Power supply		230V 1N ~ 50Hz	400V 3N ~ 50Hz		
Electric motor	kW	0.37	1.1	2.2	3
Total power consumption	kW	0.87	1.6	2.7	3.5
Approx. weight		IP40			
Approx. weight	kg	30	55	85	85
Operation		Double-stage			
Operating temperature	°C	-10 ÷ +50			
Storage Temperature	°C	-20 ÷ +60			
Working service*		Intermittent			

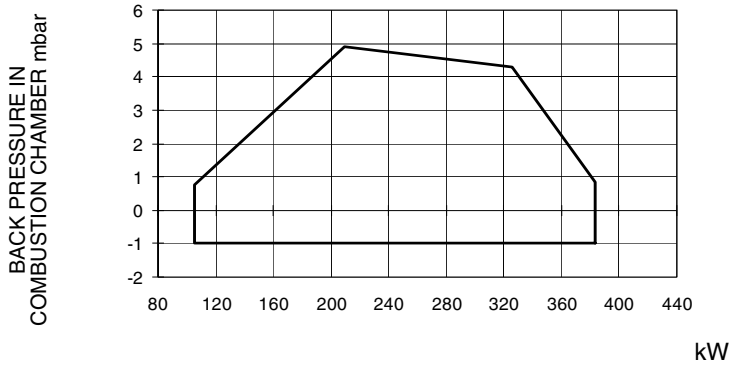
NOTE: Choosing the nozzle for light oil, consider Hi equal to 10200 kcal/kg.

***NOTE ON THE BURNER WORKING SERVICE:**

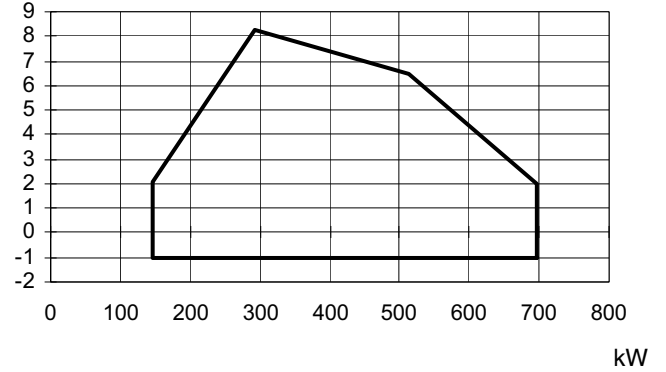
- Burners provided with Siemens LOA24-44 control box: for safety reasons, one controlled shutdown must take place every 24 hours of continuous operation.
- Burners provided with Siemens LMO24-44 control box: the control box automatically stops after 24h of continuous working. The control box immediately starts up, automatically.

Performance curves

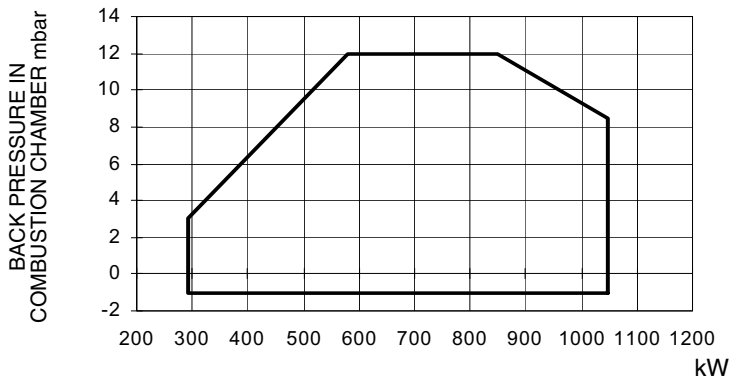
PG30



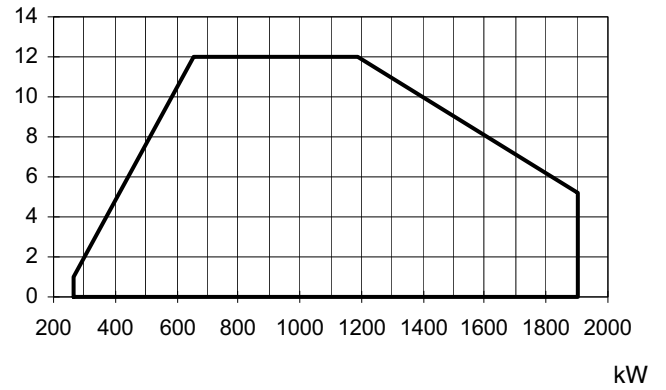
PG60



PG70



PG81

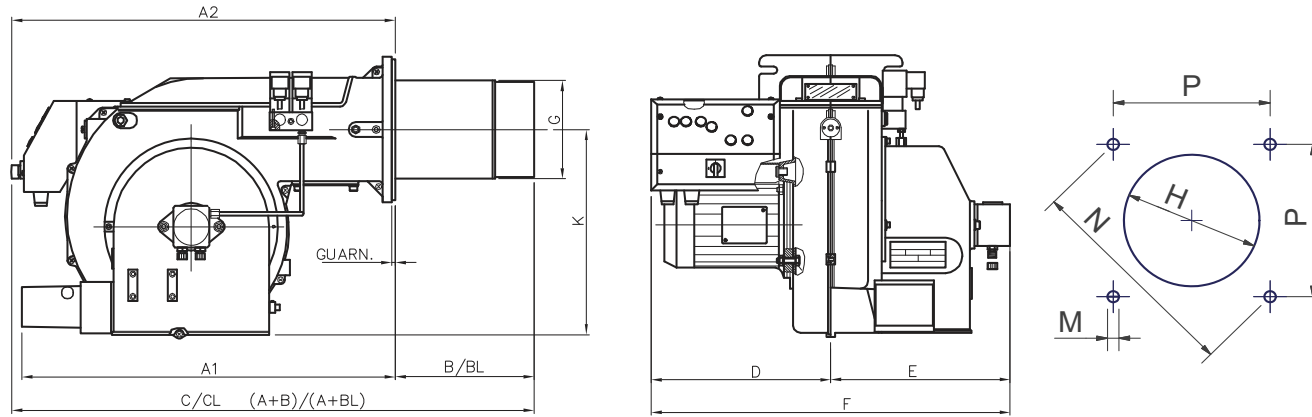


To get the input in kcal/h, multiply value in kW by 860.

Data are referred to standard conditions: atmospheric pressure at 1013mbar, ambient temperature at 15°C

NOTE: The performance curve is a diagram that represents the burner performance in the type approval phase or in the laboratory tests, but does not represent the regulation range of the machine. On this diagram the maximum output point is usually reached by adjusting the combustion head to its "MAX" position (see paragraph "Adjusting the combustion head"); the minimum output point is reached setting the combustion head to its "MIN" position. During the first ignition, the combustion head is set in order to find a compromise between the burner output and the generator specifications, that is why the minimum output may be different from the Performance curve minimum.

Overall dimensions (mm)



	A1	A2	B*	BL*	C*	CL*	D	E	F	G	H	K	M	N	P
PG30	-	500	150	340	650	840	270	230	500	121	151	292	M10	219	155
PG60	-	600	244	442	844	1042	300	285	585	153	182	350	M10	269	190
PG70	685	-	310	460	995	1145	360	350	710	198	228	375	M10	330	233
PG81	685	-	340	490	1025	1175	370	365	735	234	264	375	M10	330	233

*B, C = measure referred to burner fitted with standard blast tube

*BL, CL = measure referred to burner fitted with extended blast tube

PG60

PG70

PG81



**Progressive / Fully-modulating
Light oil burners**

MANUAL OF INSTALLATION - USE - MAINTENANCE

CIB UNIGAS

BURNERS - BRUCIATORI - BRULERS - BRENNER - QUEMADORES - ГОРЕЛКИ

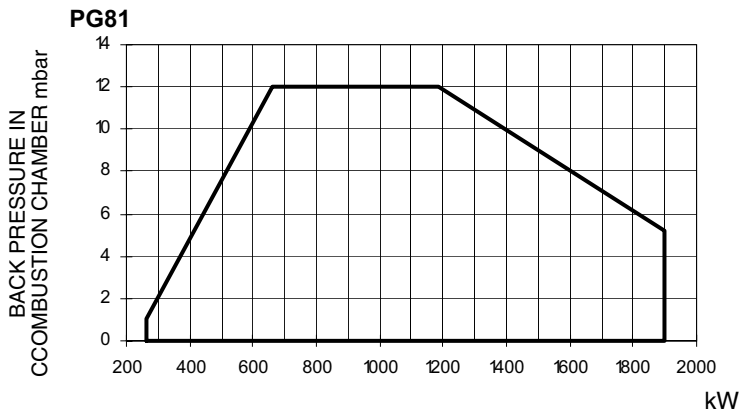
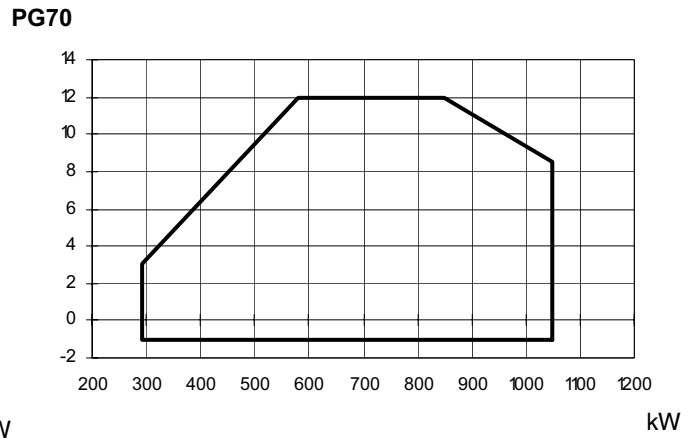
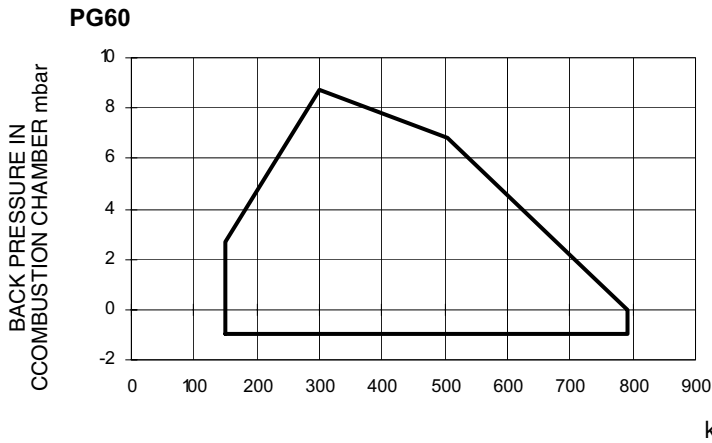
Technical specifications

BURNERS		PG60	PG70	PG81
Output	min. -max. kW	151 - 791	291 - 1047	264-1900
Light oil rate	min. -max. kg/h	13 - 67	25 - 88	22-160
Fuel		Light oil		
Viscosity		1.3 °E @20°C		
Power supply		400V 3N ~ 50Hz		
Electric motor	kW	1.1	2.2	3
Total power consumption	kW	1.6	2.7	3.5
Approx. weight	kg	55	85	85
Operation		Progressive - Fully modulating		
Operating temperature	°C	-10 ÷ +50		
Storage temperature	°C	-20 ÷ +60		
Working service *		Intermittent		

***NOTE ON THE BURNER WORKING SERVICE:**

- Burners provided with Siemens LOA24 control box: for safety reasons, one controlled shutdown must take place every 24 hours.
- Burners provided with Siemens LMO24-44 control box: the control box automatically stops after 24h of continuous working. The control box immediately starts up, automatically.

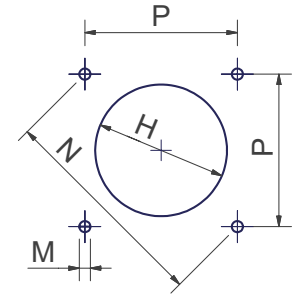
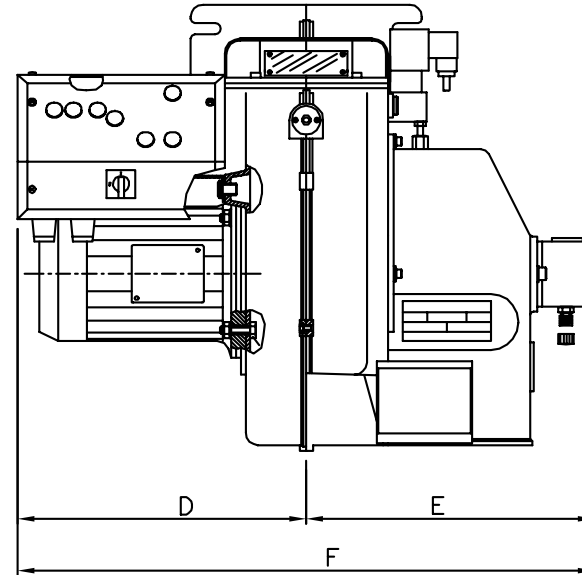
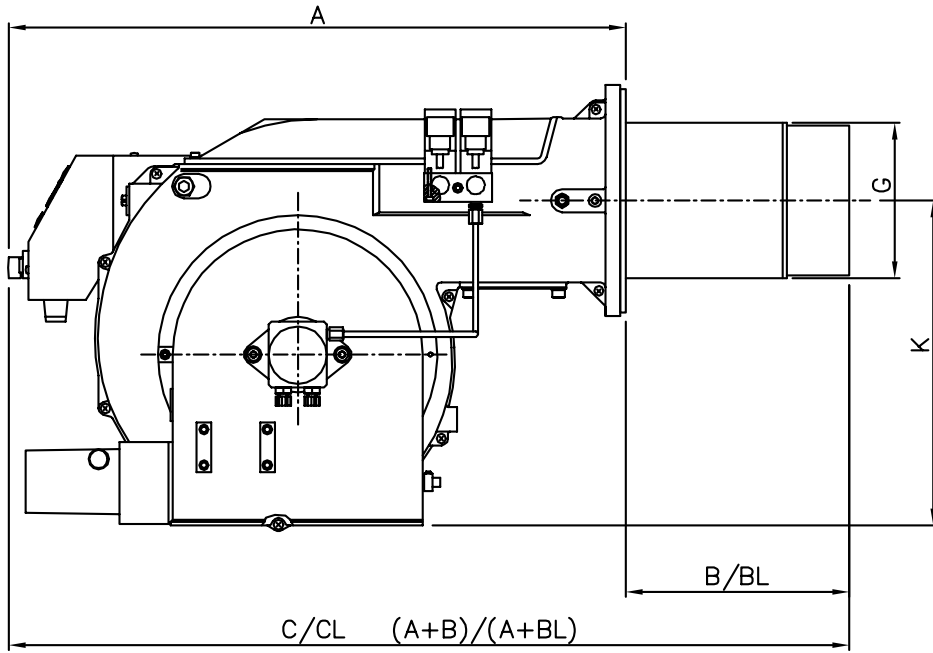
Performance curves



To get the input in kcal/h, multiply value in kW by 860.

Data are referred to standard conditions: atmospheric pressure at 1013mbar, ambient temperature at 15°C.

OVERALL DIMENSIONS (mm)



boiler drilling plate

	A	B	BL	C	CL	D	E	F	G	K	H	P	M	N
PG60	760	244	442	1004	1202	270	300	570	153	240	182	190	M10	269
PG70	725	310	460	1035	1185	355	420	775	198	300	228	233	M10	330
PG81	825	340	490	1165	1315	355	420	775	234	300	264	233	M10	330