

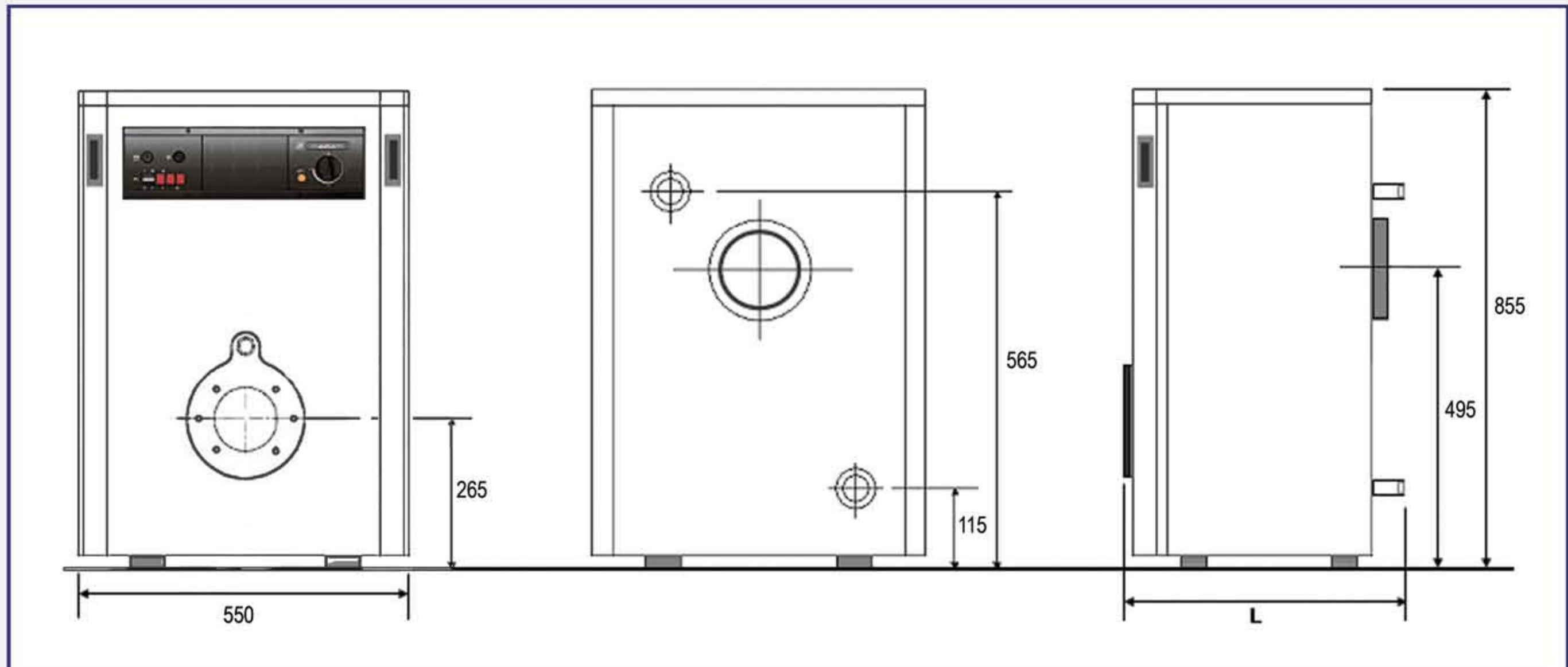
# Pratikel



- *three - pass design*
- *high efficiency*
- *cast iron sections*



## Dimensions :



PG series cast iron boilers heat transfer surface area is enlarged with the special wings in chimney ways and combustion area. With special designed flame delay turbulators, maximum heat is transferred to the water in the sections for gaining high efficiency.

Sections are produced with flexible casting technic by EN GJL 200 special cast iron alloy which gives high resistance against corrosion and heat expansions.

PG series boilers produce more energy with less fuel by its high efficiency and perfect heat isolation.

Burning gases move three times in the boiler with the help of three pass cast iron sections and this minimizes the chimney gas output temperature.

Installation, operation and controls can easily be done with the help of both side opening burner door.

Boilers can easily be delivered and installed to the boiler room as it is delivered not assembled.

## Technical Data :

Model	PG	03	04	05	06	07
Number Of Sections	Pcs.	3	4	5	6	7
Heat Output	kW	28,5	37,8	47,1	56,4	65,7
	kCal/h	24.500	32.500	40.500	48.500	56.500
Heat Input	kW	31,0	40,1	50,4	60,6	70,9
Operating Temperature	max °C	90				
Range Of Temperature Control	°C	30 - 90				
Gas Side Resistance	mbar	0,14 - 0,34	0,25 - 0,44	0,38 - 0,56	0,57 - 0,75	0,80 - 1,05
Maximum Operating Pressure	Max. bar	3				
Boiler Water Content	Litres	15	18	21	24	27
	m <sup>3</sup>	0,015	0,018	0,021	0,024	0,027
Exit Flue Connection Diameter	mm	130		150		
Combustion Chamber Dimensions	∅	mm 293				
	L	mm 235	mm 335	mm 435	mm 535	mm 635.000
Water Input - Output Connection	DN (")	G 1 ½ "				G 1 ½ "
Gas Volume Of the Boiler	dm <sup>3</sup> (lt.)	20,04	28,43	36,82	45,21	53,60
	m <sup>3</sup>	0,020	0,028	0,037	0,045	0,054
Gas Volume Of the Combustion Chamber	dm <sup>3</sup> (lt.)	15,36	21,91	28,45	34,99	41,53
	m <sup>3</sup>	0,015	0,022	0,028	0,035	0,042
Safety Temperature Limiter	°C	100				
Boiler Type		ON / OFF				
Fuel Type	Gas	Natural Gas ( I2H )				
	Liquid F.	Liquid Fuel ( Extra Light Heat Oil )				
Exit Flue Gas Temperature	Full Load °C	174 - 178	172 - 175	170 - 173	166 - 169	162 - 165
	Part Load °C	153 - 155	150 - 153	148 - 150	144 - 147	140 - 142
Exit Flue Gas Mass Flow ( %13 CO <sub>2</sub> ) % 60	Full Load kg / h	47	63	78	94	109
	Part Load kg / h	28,2	37,8	46,8	56,4	65,4
Burner Type		Short Barrel				
Burner Flange Connection Dimension	mm	105				
Standby Loss	%	0,27	0,24	0,22	0,19	0,17
	kCal/h	714	842	962	995	1,037
Boiler Length ( L )	mm	485	585	685	785	885
Dry Weight	Kg.	143	175	212	245	278
CE - Registration Number		CE - 1015BR0259				