

*D series  
29 - 78 kW*



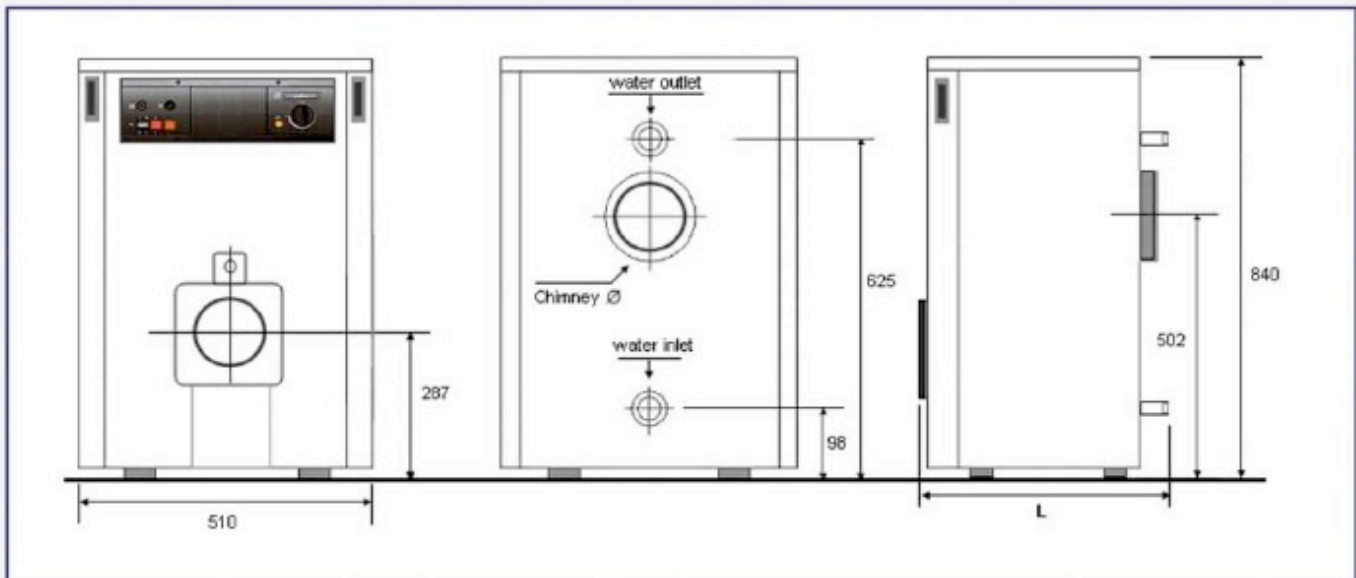
*. three - pass design*

*. high efficiency*

*. cast iron sections*



Dimensions :



D 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.

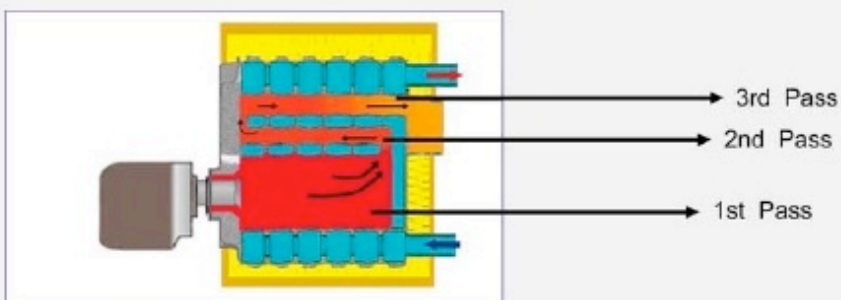
Sections are produced with flexible casting technique, EN GJL 200 special cast iron alloy, which gives high resistance against corrosion and thermal expansions.

D 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 completely assembled.



Technical Data :

Model			D 03	D 04	D 05	D 06	D 07	D 08
Number Of Sections	Pcs.		3	4	5	6	7	8
Heat Output	kW		29,1	39,0	48,8	58,7	68,6	78,5
	kCal/h		25.000	33.500	42.000	50.500	59.000	67.500
Heat Input	kW		31,6	42,3	53,6	63,8	74,5	85,3
Operating Temperature	max °C		90					
Range Of Temperature Control	°C		30 - 90					
Gas Side Resistance	mbar		0,31 - 0,46	0,42 - 0,59	0,61- 0,89	0,84 - 1,25	1,02 - 1,37	1,19 - 1,56
Maximum Operating Pressure	Max. bar		4					
Boiler Water Content	Litres		13,74	17,38	21,02	24,66	28,30	31,94
	m <sup>3</sup>		0,0137	0,0174	0,0210	0,0247	0,0283	0,0319
Exit Flue Connection Diameter	mm		130			150		
Combustion Chamber Dimensions	ø	mm	290					
	L	mm	280	380	480	580	680	780
Water Input - Output Connection	DN (")		G 1 ¼ "					
Gas Volume Of the Boiler	dm <sup>3</sup> ( lt )		24,20	33,40	42,60	51,80	61,00	70,20
	m <sup>3</sup>		0,024	0,033	0,043	0,052	0,061	0,070
Gas Volume Of the Combustion Chamber	dm <sup>3</sup> ( lt )		16,94	23,38	29,82	36,26	42,70	49,14
	m <sup>3</sup>		0,017	0,023	0,030	0,036	0,043	0,049
Safety Temperature Limiter	°C		100					
Boiler Type			ON / OFF					
Fuel Type	Gas		Natural Gas ( IzH )					
	Liquid F.		Liquid Fuel ( Extra Light Heat Oil )					
Exit Flue Gas Temperature	Full Load	°C	181 - 187	175 - 185	170 - 182	169 - 181	167 - 180	163 - 176
	Part Load	°C	160 - 163	157 - 160	155 - 157	152 - 155	146 - 150	143 - 147
Exit Flue Gas Mass Flow ( %13 CO <sub>2</sub> )                      % 60	Full Load	kg / h	49	65	82	98	115	131
	Part Load	kg / h	29,215	39,148	49,081	59,015	68,948	78,881
Burner Type			Short Barrel					
Burner Flange Connection Dimension	mm		106					
Standby Loss	%		0,25	0,23	0,20	0,17	0,15	0,13
	kCal/h		678	835	907	926	956	948
Boiler Length ( L )	mm		540	640	740	840	940	1.040
Dry Weight	Kg.		148	175	202	229	256	283
CE - Registration Number			CE - 1015 B-30-00670-07					

Three draught design forces the flue gas to circulate inside the body of the boiler three times before the chimney exit, transferring all usefull energy to the water inside the sections . The optimized combustion chamber combined with perfect heat insulation provides maximum fuel efficiency.