

PYROLYTIC WOOD BOILERS



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Steel pyrolytic boilers ABC DELTA, heating rate **10 to 20 KW** and **15 to 30 KW**, are intended for wood combustion (only dry wood/humidity up to 25%). Once the pyrolysis begins, almost complete combustion of the wood is achieved and the yield is estimated to reach up to 95%.

The pyrolytic wood boilers use the energy from the wood combustion three times more efficiently than in the case of other simple wood boilers. Low maintenance cost, low residues and comfortable use, consist additional advantages for the consumer. The inner body of the boiler and the combustion chamber are manufactured from high quality steel, 5 mm thick. The spacious combustion chamber, allows the use of wood/logs up to 500 mm long. Burn time for a full load of seasoned wood is estimated to be 6 hours at maximum efficiency and up to 12 hours at minimum. The burner can maintain the coal up to 12 hours. The burner can maintain the coals up to 12 hours, so you do not have to restart combustion. The boiler is fully automated and equipped with LCD display controls for all its settings.



The boiler is equipped with two lambda sensors, which constantly monitor the amount of oxygen and flue and regulate the flow of primary and secondary air using automated motors.

Thermal protection is provided in the form of copper pipe and mandatory installation of the thermal valve. In addition, it has an automated absorption of smoke system, so as to prevent smoke from coming into the boiler room during the process of provisioning with wood. The boiler requires at least one container of hot water (boiler, buffer), in order to be installed in the system of central heating. For every 1KW of power we recommend a water storage tank of at least 50 lt capacity (for example, for a 30KW boiler is required a water storage tank of 1500 lt).

The warranty for all mechanical parts is 5 years, while for the electrical and ceramic components 2 years. This product has been manufactured according to Community standards EN 303-5, and in compliance with international standards for the emission of air pollutants.



	ABC DELTA 20	ABC DELTA 30
Model	Pyrolytic Boiler	Pyrolytic Boiler
Power [kW]	20	30
Wood consumption m ³ /hour *	Max 0,02m ³	Max 0,02m ³
Efficiency %	95%	95%
Metal thickness of burning chamber (mm)	5	5
Material of the internal of the burning chamber	SHAMOT HII (DIN)	SHAMOT HII (DIN)
Water boiler volume (lt)	100	100
Size of wood for fuel (mm)	500x100x100	500x100x100
Firebox dimensions (m ³)	0,12	0,12
Diameter of pipe (mm)	150	150
Necessary draught (Pa)	10	12
Max working pressure (Bars)	3	3
Max working temperature (°C)	85	85
Dimensions (mm)	H:1395 W:640 D:1080	H:1395 W:640 D:1080
Weight (Kg)	510	513
Connection voltage (V) ⊕ Frequency (Hz)	230/50	230/50
Electric power (W)	150	150
CONNECTORS ON THE BOILER	Outwards leads	R5/4"
	Returning line	R5/4"
	Filling and emptying	R1/2"
	Sonda thermo valve	R3/4"
	Thermo valve	R1/2"



* For dry wood/humidity < 25%