

HOT WATER BOILER WITH TWO COMBUSTION CHAMBERS



BioTec Plus

25 - 45 kW

Steel hot water boiler with two combustion chambers is intended for firing **wood pellets** and **logs**. In the pellet combustion chamber is installed the burner for wood pellet firing with the automatic pellet firing and **automatic grate cleaning function** and in the second combustion chamber the **wood gasification** principle enables burning of logs. Multifunctional digital boiler control using lambda probe and underpressure fan optimizes combustion in both combustion chambers, which increases the efficiency of the boiler. The pellet tank is an integral part of the boiler to which the automatic vacuum pellet supply can be installed. The installation of the accumulation tank (CAS) is obligatory. It is possible to expand the boiler control with the CM2K-B module (steering of 2 heating circuits to the outside temperature, max.4xCM2K), alarm message and boiler start/stop module CMGSM.



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HEATING TECHNIQUE

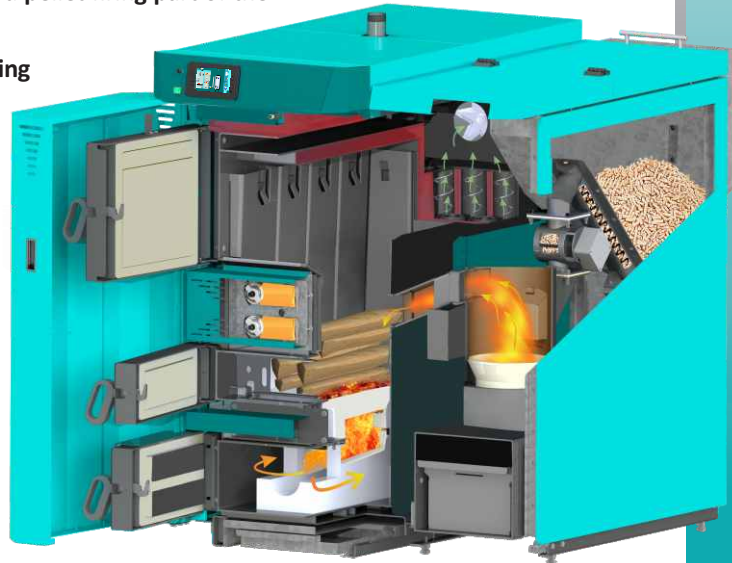
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CHARACTERISTICS OF THE BioTec Plus

- Boiler Class 5.
 - Hot water boiler with two combustion chambers for firing logs and wood pellets, with power output 25, 31, 35 and 45 kW.
 - Compact boiler of high efficiency and low maintenance (with standard built-in automatic cleaning of the grate of pellet combustion chamber it is possible to order additional automatic cleaning of flue gas tubes).
 - Boiler operation is managed with built-in boiler control unit using the lambda probe, boiler sensor, temperature sensor in wood gasification boiler combustion chamber and flue gas temperature sensor by flue gas modulating fan.
 - Modulating boiler operation (30 -100%).
 - Filling level sensor in the pellet tank.
 - Multifunctional digital controller with a colour touch screen conducts the wood gasification burning process in the log firing boiler and can automatically turn in the wood pellet firing part of the boiler when there are no more logs in the boiler.
 - It is engineered for installation in open or closed heating systems only through the accumulation tank (CAS), volume min. 50l/kW.
- The boiler is tested and certified according to EN303-5: 2012 and meets Class 5. It is manufactured in accordance with ISO 9001 and ISO 14001 standard.



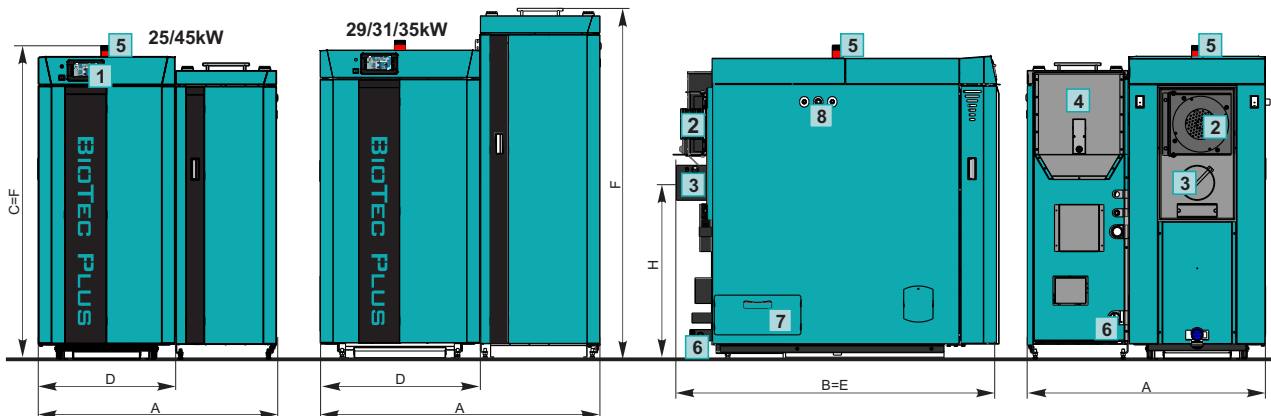
Multifunctional control with touch screen.



Boiler cross section

BASIC DIMENSIONS:

- 1 - Boiler regulation
- 2 - Fan with electric motor
- 3 - Flue gas with exhaust
- 4 - Pellet tank
- 5 - Boiler water inlet
- 6 - Boiler water outlet
- 7 - Side opening for cleaning the flue gas chamber
- 8 - Place for installation of thermal protection



BioTec Plus		25	29	31	35	45
Nominal heat output - wood	(kW)	25	29	31	35	45
Nominal heat output - pellets	(kW)	25	29	31	35	45
Boiler width A	(mm)	1025	1230	1230	1230	1230
Boiler depth B	(mm)	1385	1445	1445	1445	1385
Boiler height C	(mm)	1350	1395	1395	1395	1590
Width to enter the room D	(mm)	610	720	720	720	720
Depth to enter the room E	(mm)	1385	1445	1445	1445	1405
Height to enter the room F	(mm)	1350	1520	1520	1520	1590
Pellet tank volume	(lit.)	80	148	148	148	148
Outlet/Inlet	G	6/4"	6/4"	6/4"	6/4"	6/4"
Chimney* / Connection height H	ø/mm	150/765	160/765	160/765	160/765	180/1265
Energy efficiency class		A ⁺	A ⁺	A ⁺	A ⁺	A ⁺

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