



Combined boilers BioTec Plus (25/29/31/35/45 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

PRODUCT CHARACTERISTICS



TWO COMBUSTION CHAMBERS

Two combustion chambers in the common boiler water.



PELLET TANK

The pellet tank is an integral part of the boiler – option to install the automatic vacuum pellet delivery system.



TWO ENERGIES USED

Intended for firing wood pellets and logs

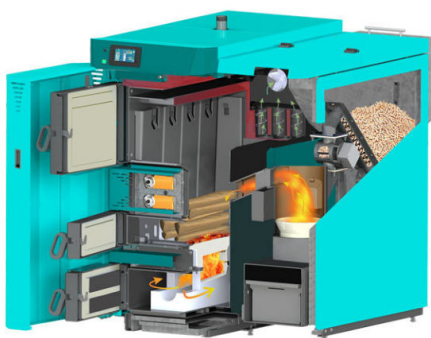


PELLET IGNITION

The pellet burner is factory-fitted with a burner with automatic burner grid cleaning and pellet ignition.

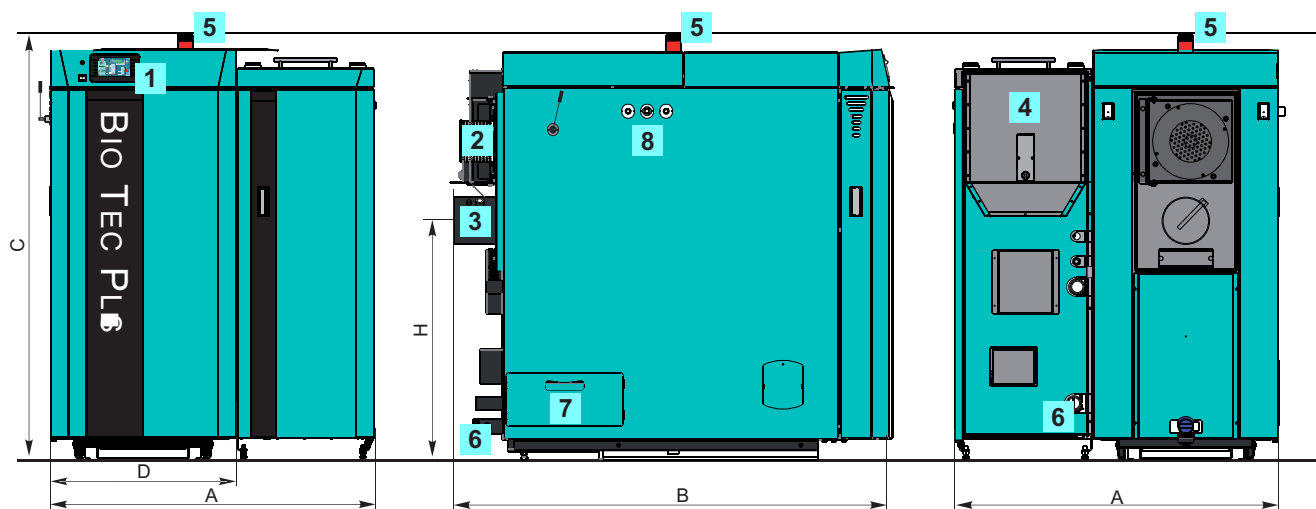
BioTec Plus 25-45kW		25	29	31	35	45
Nominal heat output - wood	kW	25	29	31	35	45
Nominal heat output – pellets	kW	25	29	31	35	45
Boiler width A	mm	1025	1230	1230	1230	1230
Boiler depth B	mm	1385	1445	1445	1445	1385
Boiler height C	mm	1350	1395	1395	1395	1590
Width to enter the room D	mm	610	720	720	720	720
Boiler depth H	mm	765	765	765	765	1265
Pellet tank volume	l	80	148	148	148	148
*Flue gas tube connection	Ø mm	150	160	160	160	180
Inlet diameter	R	6/4"	6/4"	6/4"	6/4"	6/4"
Outlet diameter	R	6/4"	6/4"	6/4"	6/4"	6/4"
Energy efficiency class	-	A ⁺	A ⁺	A ⁺	A ⁺	A ⁺

- Boiler Class 5.
- Hot water boiler with two combustion chambers for firing logs and wood pellets, with power output 25, 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 on pellet side (30 -100%).
- Modulating boiler operation on wood side (50-100%).
- 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.
- 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

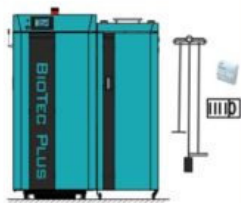


BASIC DIMENSIONS:

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

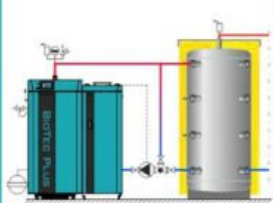


DELIVERY, OBLIGATORY AND OPTIONAL ADDITIONAL



Delivery:

Boiler with casing on 2 wooden pallets, wired, with 4 additional sensors, external temperature sensor, room corrector and cleaning accessories (2 x scraper, brush, cleaning accessories holder).



Obligatory: Connection to CAS accumulation tank:

< CAS accumulation tank, 3-way thermostatic valve LTC, VTC.... (60°C);

Closed heating system

< thermal safety valve, safety-air vent group (2.5 bar) and expansion vessel;

Open heating system

< open expansion vessel.



GSM alarm module for mobile network // CAL

< notification of the boiler status through the mobile network text message or call (errors, warning..)

< request for the boiler status phase of work, boiler temperature, through an SMS message in the selected language

< boiler start/stop by SMS

CAL set alarm (speaker / light)
module for error notification by sound or light signal or warning about the boiler operation



CM2K-B module for steering 2 heating circuits// CSK

< allows steering of up to 2 heating circuits to the outside temp. (up to 2 mixing valves and up to 2 heating pumps)

< possible connection of up to 4 CM2K-B modules (up to 8 heating circuits)

< possible connection of up to 2 room correctors to one CM2K module

CSK
room corrector



Vacuum wood pellet feeding:

< Vacuum wood pellet feeding with mole from the storage/room

< Vacuum pellet feeding from the large pellet tank (Centropellet box)

< Vacuum pellet feeding with the feeder screw (transporter) from the room/storage

< Max. 10 m long flex. tubes from the large storage.

< Only for pellets DINplus or ENplus A1.

ADDITIONAL EQUIPMENT:

Obligatory: Connection to CAS accumulation tank:

– CAS accumulation tank, 3-way thermostatic valve LTC, VTC.... (60°C);

Closed heating system – thermal safety valve, safety-air vent group (2.5 bar) and expansion vessel

Open heating system – open expansion vessel;.

