WOOD FIRING BOILER (WOOD GASIFICATION)





BioTec-C

25, 35 and 45 kW



BioTec-C steel hot water boilers (with nominal heat output of 25 to 45 kW) are designed for wood log fuel firing for the heating of small and middle sized premises. The **wood gasification** principle enables a complete fuel burning. Logs up to 550 mm long can be inserted into the large combustion chamber. The burning period for a single fill of logs is at least 4 hours at the rated output and can be extended to a whole day if the need for heating is less. The boiler can keep the glow even 8 hours, which means that in this period it is not necessary to fire up the boiler in order to keep the heating process. Boiler operation is managed with inbuilt boiler control unit using the boiler temperature sensor and changing the rpm's of underpressure fan on flue gases outlet from boiler. Boiler is connected to the central heating

system through a 3-way thermostat valve

accumulation (buffer) tank (like CAS, CAS B, CAS S, CAS BS). The boiler is tested and certified according to the European standard EN 303-5:2012 and meets class 5. It is manufactured in compliance with ISO 9001/2008 and ISO 14001/2004 standard and meet the requirements for ECO design (commission (EU) 2015/1189).



Centrometal d.o.o. - 40306 Macinec - Glavna 12 - Croatia - tel:+385 (0)40 372 600 - fax:+385 (0)40 372 611 Branch office - 10000 Zagreb - Babonićeva 53 - Croatia - tel:+385 (0)1 46 33 762 - fax:+385 (0)1 46 33 763 http://www.centrometal.hr e-mail: komercijala@centrometal.hr

HEATING TECHNIQUE

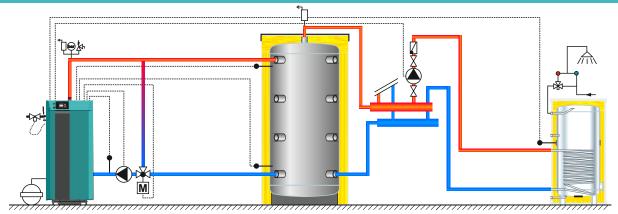
- Roiler Class 5
- Meet the requirements for ECO design (COMMISSION (EU) 2015/1189).
- Hot water boiler for central heating systems is engineered for wood log firing of the moisture content under 25% (min 1 year long air dried wood).
- The wood gasification principle enables total burning of the fuel, reducing the cleaning of the boiler to minimum (depends on wood quality and nominal boiler load).
- The design and construction, including the wood gasification principle of complete burning assures high efficiency and makes the boiler extremely economical.
- It is environmentally friendly because of extremely low concentration of harmful components in flue gases.
- Three doors and the combustion chamber enable loading with large logs as well as very simple cleaning and maintenance.
- It is engineered for installation in open or closed central heating systems only through accumulation tanks (CAS), volume min. 50l/kW and a 3-way thermal valve at 60°C.
- $\ \blacksquare$ It is delivered pre-wired with the built-in boiler control unit to control the boiler.
- The built-in boiler control with the 4 buttons manages the boiler operation using the boiler temperature sensor and changing the rpms of underpressure fan on the flue gases outlet from the boiler.
- In addition to the operation of the boiler, the boiler pump and the return
- flow (through the 3-way mixing valve and the return sensor), the control unit can manage the filling of the accumulation tank and heating of the domestic hot water tank (DHW sensor) (sensor + pump).
- Easy transportation and leveling by 4 adjustable legs of the boiler.
- The boiler is tested and certified according to EN 303-5: 2012 and meets Class 5. It is manufactured in accordance with ISO 9001 and ISO 14001 standard.



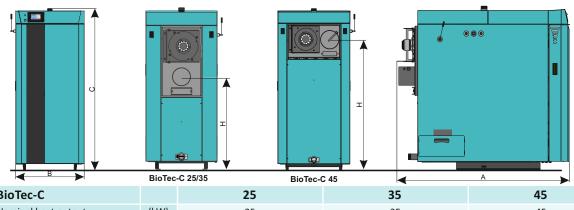
Control unit



INSTALLATION EXAMPLE



BOILER DIMENSIONS



BioTec-C		25	35	45
Nominal heat output	(kW)	25	35	45
Chimney diameter*/ height H	Ø(mm)	150/785	160/785	180/1290
Max. operating pressure	(bar)	2,5	2,5	2,5
Total boiler depth (A)	(mm)	1400	1445	1385
Total boiler height (C)	(mm)	1375	1420	1615
Total boiler width (B)	(mm)	585	700	700
Wood piece length	(mm)	450-550	450-550	450-550
Energy efficiency class		A ⁺	A ⁺	A ⁺
* - chimney inside diameter has to be determined according to the boiler nominal heat output and the height of the chimney and almost always it has to be bigger then the flue gas exhaust tube diameter.				

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