

WOOD PELLET BOILER

Pel-Tec

12-48 kW

HEATING TECHNIQUE

Steel hot water boiler are engineered for wood pellet firing. In the boiler is installed the burner for wood pellet firing with the automatic firing and automatic self-cleaning function which enables the reliable operation also with the low quality wood pellets. The function of the automatic cleaning flue gas tubes provides the unifying exchange of the heat and high and unifying level of boiler efficiency. Digital boiler controller in a basic construction offers also the possibility of control with the additional equipment likes lambda probe or level control of the wood pellets in the pellet tank. The pellet tank is the integral part of the boiler. The boiler is delivered in pieces due to the easier transport into the boiler room.



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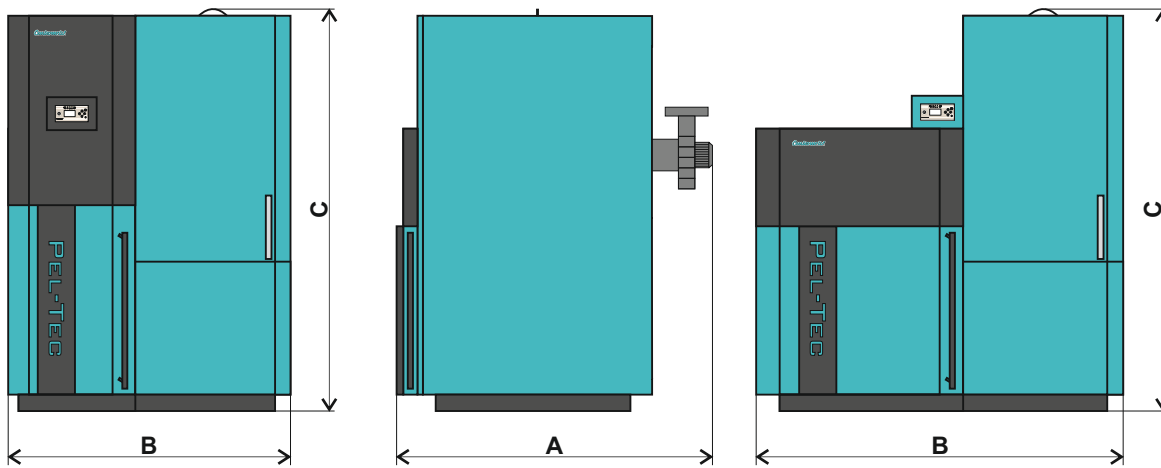
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CHARACTERISTIC OF THE BOILER Pel-Tec:

- Hot water boiler for central heating systems, Pel-Tec, with integrated pellet burner, nominal heat output 12, 24, 30 and 48 KW.
- Designed for firing with wood pellets only.
- Fully automated operation of the boiler through installed digital controller unit which steers operation of the boiler, pump for heating systems and DHW and also the automatic cleaning of the burner and boiler.
- Modulating operation of the boiler (30% - 100%) and high boiler efficiency.
- Operation also with the low quality wood pellets.
- Wide graphic display on the controller unit.
- Ash removal after approximately 3 spent pellet tanks (approximately 600 kg) which depend on the wood pellet quality.
- Additional equipment: Lambda probe, sensor for level of the wood pellets in pellet tank, room thermostat with signal of the wood pellet level in the tank, error and wood pellet level in the tank messages over GSM, automated filling of the pellet tank, steering of the heating circuit by the outer temperature....

BOILER DIMENSIONS



Pel-Tec 12

Pel-Tec 24-48

Pel-Tec		12	24	36	48
Nominal thermal output	(kW)	12	24	36	48
Flue gas tube - outer diameter *	φ(mm)		150	160	200
Inlet / outlet	(R)	1"	5/4"	5/4"	5/4"
Filling / draining	(R)	1/2"	1/2"	1/2"	1/2"
Max. operation temperature	(°C)	90	90	90	90
Max. operation pressure	(bar)	2,5	2,5	2,5	2,5
A	(mm)	810	1000	1000	1085
B	(mm)	1100	1385	1465	1465
C	(mm)	1550	1550	1550	1550

* chimney inside diameter has to be determined according to the boiler nominal thermal output, height of the chimney and almost always it has to be bigger than the flue gas exhaust tube diameter.