

WOOD PELLET BOILER



wood pellets

PelTec

12-96 kW



HEATING TECHNIQUE

Steel hot water boilers 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. Multifunctional **digital boiler controller** in a basic version offers the possibility of modulating boiler operation and control the level of pellets in the tank. Inbuilt return flow protection ensures correct boiler operation also at the lower return flow temperatures. It is possible to install a lambda probe for additionally optimizing the combustion process. The pellet tank is the integral part of the boiler. The boiler is delivered in sections for easier transport into the boiler room. It is also possible to order a CM WiFi box that allows you to monitor boiler operation, turning on/off and change temperature via internet portal (smartphone, computer, tablet, etc.)



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CHARACTERISTIC OF THE BOILER PelTec:

- Class 5 boiler.
- Hot water boiler for central heating systems, PelTec, with integrated pellet burner, nominal heat output 12, 18, 24, 36, 48, 69 and 96 kW.
- Low emission of harmful compounds in the flue gases.
- Modulating operation of the boiler (30% -100%).
- Automatic cleaning of the burner grid and flue passages.
- Flue gas temperature sensor and level sensor pellets in the tank.
- Integrated return flow protection with 4way mixing valve with actuator for direct heating or buffer (storage) tank systems (in systems with several heating circuits required hydraulic crossover).
- Multifunctional digital controller with touch screen controls the boiler and can conduct one direct heating circuit and one domestic hot water circuit.
- Emptying the ash box, after having spent 2-3 pellet tanks (400-600kg).
- Additional equipment: CM WiFi-box for boiler supervision and boiler management (by PC, smartphone, computer etc.), CM2K module for regulation 2 (max 8) heating circuits by outside temperature., room corrector, GSM alarm, automatic pellet tank refill, external regulator, cascade manager.
- Lambda probe (additional equipment) for additionally optimizing the combustion process.
- The boilers are tested and certified in accordance with the standard EN303-5:2012. They satisfy the class 5 and are manufactured in accordance with the standard ISO 9001 and ISO 14001.

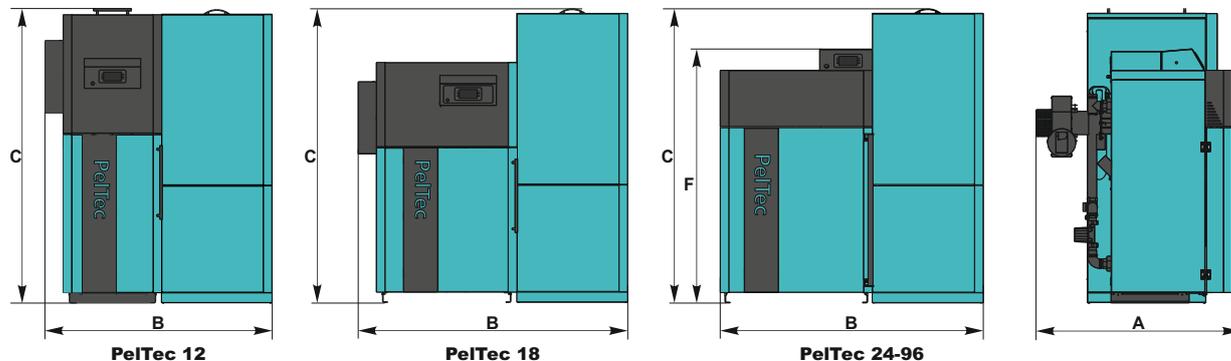


Multifunctional control with a touch screen display.



Boiler section view

BOILER DIMENSIONS



PelTec		12	18	24	36	48	69	96
Nominal heat output	(kW)	12	18	24	36	48	69	96
Heat output range	(kW)	3,6-12	5,4-18	7,2-24	10,8-36	14,4-48	20,7-69	28,8-96
Flue gas tube - outer diameter*	Ø(mm)	130	130	130	150	150	200	200
Inlet / outlet	(R)	1"	1"	5/4"	5/4"	5/4"	6/4"	6/4"
Filling / Drainage	(R)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Max. operating temperature	(°C)	90	90	90	90	90	190	205
Water amount in boiler	(lit.)	78	76	100	108	135	90	90
Max. operation pressure	(bar)	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Pellet tank volume	(lit.)	340	340	340	340	340	530	530
Total length (A)	(mm.)	1105	1105	1080	1160	1175	1240	1310
Total width (B)	(mm.)	1200	1420	1420	1485	1485	1940	1965
Total height (C)	(mm.)	1560	1560	1560	1560	1560	1560	1560
Length to enter the room	(mm.)	760	760	760	840	840	815	885
Width to enter the room	(mm.)	650	880	855	945	945	1220	1245
Height to enter the room	(mm.)	1560	1275	1340	1340	1490	1520	1520
Boiler mass	(kg)	328	349	402	455	478	730	830
Energy efficiency class		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 than the flue gas exhaust tube diameter.

HEATING TECHNIQUE

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