

Pelltech PK 100/160

Pelltech **Everclean** boiler series serves a highly effective and convenient solution for heating systems in single and semi-detached houses as well as smaller public buildings. Easy integration with Pelltech PV-series burners ensures **efficient, environmental and cost effective** pellet combustion.



BOILERS

Perfect fit for all Pelltech burner series

PK 100 AND PK 160 KEY FEATURES

- Vertical 2-pass boiler with large water content
- Automatic heat exchanger cleaning with rotating turbulators
- Big built in ash container (needs emptying approximately once a month)
- Integrated flue gas fan working by draught sensor
- Integrated Smart house controller for burner, boiler and house control
- Boiler Internet connection allows remote control, data logging and firmware updating
- Flue gas and water outlets can be directed either to the top or back

All boilers in this range are equipped with **home control system**, which controls two heating circuits and pumps. It enables managing up to seven temperature sensors, an oxygen sensor and wireless sensor for indoor and outdoor temperature measuring. All information can be monitored and controlled online, including changing room temperature and observing fuel level in the silo.

Pelltech OÜ is a company specialised in development, manufacture and sale of pellet burners and boilers. Founded in 2006 by two pioneers in the field of renewable energy, Pelltech has become the largest and most acknowledged pellet burning equipment firm in the Baltics.





1. Turbulators
2. Tube cleaning motor
3. Flue gas fan
4. Flue gas outlet
5. Boiler temperature sensor
6. Heat exchanger
7. Water jacket
8. Combustion chamber
9. Boiler door
10. Pellet burner
11. Ash container door

Model	Unit	PK 100	PK 160
Mains supply		230V, 50Hz	
Boiler class according to EN 303-5		5	
Minimal returning water temp.	°C	55	
Recommended working temp.	°C	75	
Highest working temp.	°C	90	
Safety thermostat triggering temp.	°C	95	
Permissible operative pressure	bar	2.5	
Test pressure	bar	4	
Boiler water volume	L	275	300
Boiler weight	kg	495	620
Boiler Dimensions WxDxH	mm	785x995x1524	785x1175x1592
In-take width without side panels	mm	685	685
Ash container volume	L	97	115
Combustion chamber dimensions WxDxH	mm	430x840x710	330x969x710
Electrical consumption at ignition	W	500	
Electrical consumption during work	W	70	200
Electrical consumption at standby	W	3	
Combustion air inlet hatch	cm ²	>600	>900
Burner's fixing flange	mm	130	
Number of turbulators	pcs	14	22
Flue gas outlet	∅ mm	150	
Chimney diameter	mm	>150	>180
Boiler top connections	pcs	2xG1.5"	2xG2"
Distance between top connections	mm	560	758
Boiler back connections	pcs	2xRp1"	2xRp2"
Required safety valve connections	pcs	1xDN25	1xDN32

Efficiency indicators		PK 100		PK 160	
Indicator	Unit	Full load	Min load	Full load	Min load
Capacity	kW	90	26	140	40
Flue gas temp. at boiler temp. 75°	°C	148	79	174	99
Efficiency at boiler temp. at 75°	%	92	94	90	92
CO (13% O ₂)	mg/m ³	157	119	185	49
NO _x (13% O ₂)	mg/m ³	109	90	104	98
OGC (13% O ₂)	mg/m ³	2.7	1.1	2.0	0.5
Dust (13% O ₂)	mg/m ³	16.1	23.7	19.8	20.9



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