

## Pelltech PK 30/50

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 30 & PK 50 KEY FEATURES

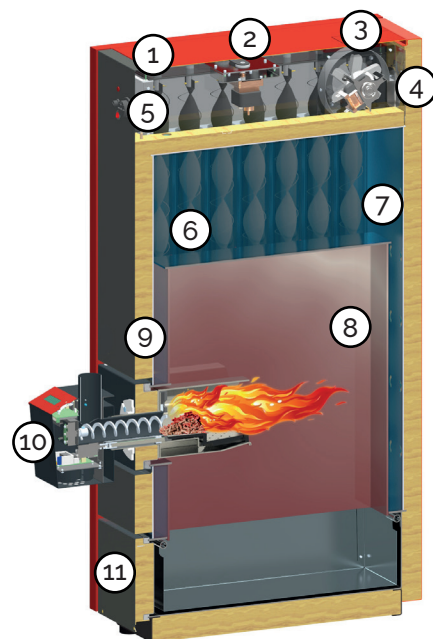
- Vertical 2-pass boiler with large water content
- Automatic heat exchanger cleaning with rotating turbulators
- Big built in ash container (needs emptying approximately once a month)
- Integrated flue gas fan working by draught sensor
- Integrated Smart house controller for burner, boiler and house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

Pelltech boilers can be equipped with the new **home control system**, which manages two heating circuits and pumps. It enables to control 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.



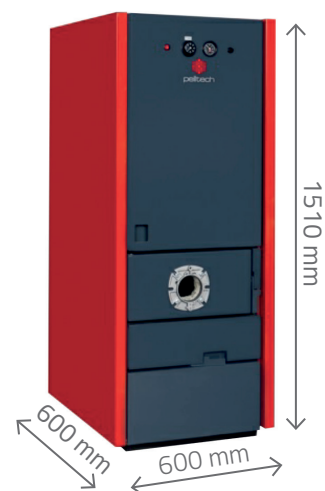
pelltech  
BURNERS



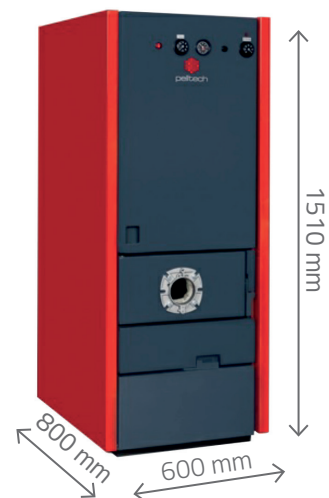
1. Turbulators
2. Tube cleaning motor
3. Flue gas fan
4. Flue gas outlet
5. Boiler temperature sensor
6. Heat exchanger
7. Water jacket
8. Combustion chamber
9. Boiler door
10. Pellet burner
11. Ash container door

| Model                                 | Unit            | PK 30 & 31   | PK 50 & 51   |
|---------------------------------------|-----------------|--------------|--------------|
| Mains supply                          |                 | 230V, 50Hz   |              |
| Rated thermal output                  | kW              | 28           | 47           |
| 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               | 125          | 150          |
| Boiler weight                         | kg              | 196          | 313          |
| Boiler Dimensions WxDxH               | mm              | 600x600x1510 | 600x800x1510 |
| In-take width without side panels     | mm              | 500          |              |
| Ash container volume                  | L               | 38           | 54           |
| Combustion chamber dimensions WxDxH   | mm              | 330x400x700  | 330x600x700  |
| Electrical consumption at ignition    | W               | 500          |              |
| Electrical consumption during work    | W               | 50           |              |
| Electrical consumption at standby     | W               | 3            |              |
| Combustion air inlet hatch            | cm <sup>2</sup> | >200         | >300         |
| Burner's fixing flange                | mm              | 90           |              |
| Flue gas outlet                       | ∅ mm            | 112          |              |
| Number of turbulators                 | pcs             | 4            | 7            |
| Chimney diameter                      | mm              | >100         | >120         |
| Boiler top connections                | pcs             | 2xG1"        |              |
| Distance between top connections      | mm              | 125          |              |
| Boiler back connections               | pcs             | 2xRp1"       |              |
| Required safety valve connections     | pcs             | 1xDN20       |              |
| Electrical heating element            | kW              | 6            | 9            |
| Flue gas temperature at rated output  | °C              | 150...180    |              |
| Efficiency at boiler's temp. at 70° C | %               | 94           |              |

PK 30 & 31



PK 50 & 51



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