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› Extraflame Caldaia PK 30 Pellet Boiler User Manual

## Extraflame PK 30

# Extraflame Caldaia PK 30 Pellet Boiler User Manual

Model: PK 30 | Brand: Extraflame

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## 1. PRODUCT OVERVIEW

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The Extraflame Caldaia PK 30 pellet boiler is a state-of-the-art heating solution designed for efficiency and user comfort. Equipped with advanced technology, including brushless motors for high power and low noise, it seamlessly integrates with existing heating systems to supply radiators and underfloor heating. This modern pellet boiler features automatic ignition and temperature regulation, a Black Mask display for parameter control, and options for domestic hot water heating. Its Auto Clean Checkup function ensures efficient pellet combustion and reduced cleaning effort. The chronothermostat allows for precise temperature scheduling across four daily sections, while Electronic Air Control optimizes thermal efficiency by managing primary and secondary combustion air.



**Figure 1:** The Extraflame Caldaia PK 30 pellet boiler shown in an installation setting, demonstrating its compact design alongside pellet storage.

## 2. IMPORTANT SAFETY INFORMATION

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Please read and understand all safety instructions before installing, operating, or performing maintenance on the Extraflame Caldaia PK 30 pellet boiler. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Professional Installation:** Installation must be performed by a qualified and certified technician in accordance with all local and national building codes and regulations.
- **Fuel Type:** Only use approved wood pellets as fuel. Do not use any other materials, as this can damage the boiler and create hazardous conditions.
- **Ventilation:** Ensure adequate ventilation in the boiler room. The boiler requires an external air connection (60 mm) for proper combustion.
- **Clearances:** Maintain proper clearances from combustible materials as specified in the installation manual.
- **Hot Surfaces:** The boiler surfaces will become hot during operation. Avoid contact to prevent burns.
- **Electrical Safety:** Ensure the boiler is properly grounded and connected to a dedicated electrical circuit (230 V / 50 Hz). Disconnect power before servicing.

- **Chimney/Flue:** The chimney and flue pipe (120 mm connection, rear or left) must be correctly installed and regularly inspected for blockages or damage. A minimum chimney draft of 5 Pa is required.

## 3. SETUP AND INSTALLATION

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The Caldaia PK 30 is designed for easy integration into existing heating systems. Professional installation is highly recommended to ensure optimal performance and safety.

### 3.1 Unpacking and Placement

- Carefully unpack the boiler and inspect for any shipping damage.
- Place the boiler on a level, non-combustible surface. The unit weighs 310 kg (empty weight 280 kg), so ensure the floor can support the weight.
- Ensure sufficient space around the boiler for maintenance and air circulation. Dimensions (H x W x D): 140 x 82 x 72 cm.

### 3.2 Connections

- **Heating System:** Connect the boiler to your existing radiator or underfloor heating system. The boiler has a water capacity of 63 liters.
- **Domestic Hot Water (DHW):** Connection for domestic hot water heating is possible. Consult a professional for integration.
- **Flue Gas:** Connect the 120 mm flue pipe to the designated connection point (rear or left). Ensure a tight seal and proper draft.
- **External Air:** Connect the 60 mm external air supply for optimal combustion.
- **Electrical:** Connect the boiler to a 230 V / 50 Hz power supply. The electrical power consumption is 410 W.
- **Pellet Supply:** The boiler has a pellet storage capacity of 75 kg. An external pellet supply is optional.



**Figure 2:** Detailed view of the Caldaia PK 30's Black Mask display and control interface, showing temperature and operational status.

## 4. OPERATING INSTRUCTIONS

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The Caldaia PK 30 features advanced electronics for automated and comfortable operation.

### 4.1 Initial Start-up

- Ensure the pellet hopper is filled with approved wood pellets.
- Verify all connections (water, flue, electrical, air) are secure.
- Turn on the main power switch for the boiler.
- Follow the on-screen prompts on the Black Mask display for initial setup and automatic ignition.

### 4.2 Daily Operation

- **Temperature Regulation:** The boiler automatically regulates ignition and temperature to maintain desired heating levels.
- **Black Mask Display:** Use the display to monitor operational values and adjust parameters such as target temperature.
- **Chronothermostat:** Program the chronothermostat to set specific temperatures for different times of the day, divided

into four sections, optimizing energy consumption.

- **Electronic Air Control:** This system automatically controls primary and secondary combustion air to ensure maximum thermal efficiency and clean burning.
- **Pump Control:** The boiler includes pump control for efficient circulation within your heating system.

## 5. MAINTENANCE

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Regular maintenance is crucial for the longevity and efficient operation of your Extraflame Caldaia PK 30 pellet boiler.

### 5.1 Routine Cleaning

- **Auto Clean Checkup:** The boiler's Auto Clean Checkup function minimizes cleaning effort by ensuring extremely efficient pellet combustion.
- **Ash Pan:** Regularly empty the ash pan. The frequency will depend on usage and pellet quality.
- **Combustion Chamber:** Periodically inspect and clean the combustion chamber to remove any ash or unburnt residue.

### 5.2 Professional Servicing

- It is recommended to have the boiler inspected and serviced by a qualified technician at least once a year.
- This service should include checking all components, flue gas analysis, and ensuring all safety features are operational.

## 6. TROUBLESHOOTING

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This section provides basic troubleshooting steps for common issues. For complex problems, contact a qualified service technician.

### 6.1 No Heat Output

- **Check Pellet Level:** Ensure the pellet hopper is not empty.
- **Power Supply:** Verify the boiler is receiving power and the main switch is on.
- **Error Codes:** Check the Black Mask display for any error messages or codes and refer to the full manual for their meaning.
- **Thermostat Settings:** Ensure the chronothermostat is set to a temperature higher than the current room temperature.

### 6.2 Excessive Smoke or Poor Combustion

- **Pellet Quality:** Ensure you are using high-quality, approved wood pellets.
- **Ash Pan:** Empty the ash pan if it is full.
- **Flue Obstruction:** Check the flue pipe for any blockages.
- **Air Supply:** Ensure the external air connection is clear and unobstructed.

### 6.3 Unusual Noises

- **Loose Components:** Inspect for any loose panels or components that might be vibrating.
- **Pump Issues:** If the noise is coming from the pump, it may require professional inspection.

## 7. TECHNICAL SPECIFICATIONS

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Feature	Specification
Brand	Extraflame
Model	Caldaia PK 30
Product Dimensions (H x W x D)	140 x 82.2 x 71.6 cm
Item Weight (empty)	280 kg
Item Weight (with water/pellets)	310 kg
Material	Stainless Steel
Energy Efficiency Class	A+
Nominal Thermal Power	30 kW
Total Power	8.9 - 30 kW
Room Heating Capacity	855 m <sup>3</sup> (up to 860 m <sup>3</sup> )
Efficiency	91.5% (up to 92.4%)
Boiler Class	5 (also 303-5/3)
Fuel Consumption	6.79 kg/h (up to 6.8 kg/h)
Pellet Storage Capacity	75 kg
Boiler Water Capacity	63 l
Electrical Power	410 W
Voltage / Frequency	230 V / 50 Hz
Max. Operating Pressure	3 bar
Max. Operating Temperature	85 °C
Flue Pipe Connection	120 mm (rear or left)
Minimum Chimney Draft	5 Pa
Exhaust Gas Mass Flow	15.9 g/s
Exhaust Gas Temperature	113.8 °C
Average CO Content in Exhaust Gas	18 mg/m <sup>3</sup>
External Air Connection	60 mm
Ash Pan	Yes
Automatic Air Control	Yes
Pump Control	Yes
CE Marking	Yes
BimSchV Level 2	Yes

Feature	Specification
AT §15a B-VG Standard	Yes
Swiss LRV	Yes
Assembly Required	No
Ventilation Type	Vent-free
Mounting Type	Floor Mount

## 8. WARRANTY AND SUPPORT

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### 8.1 Warranty Information

Specific warranty details for the Extraflame Caldaia PK 30 pellet boiler are not available in the provided product data. Please refer to the warranty card included with your product or contact your authorized Extraflame dealer for comprehensive warranty terms and conditions.

### 8.2 Customer Support

For technical assistance, spare parts, or service inquiries, please contact your local authorized Extraflame dealer or the manufacturer's customer service. Spare parts availability information is currently unavailable in the provided product data.



**Figure 3:** The Extraflame brand logo prominently displayed on the side panel of the Caldaia PK 30 pellet boiler.