

EIDER BIOMASA ESL233013

EIDER BIOMASA IRIS Cast Iron Wood Stove - User Manual

Model: ESL233013

Brand: EIDER BIOMASA

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your EIDER BIOMASA IRIS cast iron wood stove. Please read these instructions carefully before using the appliance and retain them for future reference. Proper use and maintenance will ensure optimal performance and longevity of your stove.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency, or the gas supplier.

- Always ensure adequate ventilation when the stove is in operation to prevent carbon monoxide buildup.
- Maintain proper clearances to combustible materials as specified in local building codes and installation instructions.
- Use only dry, seasoned wood as fuel. Do not burn trash, plastics, or treated wood, as this can produce toxic fumes and damage the stove.
- Keep children and pets away from the hot surfaces of the stove.
- Install a carbon monoxide detector in your home.
- Never leave the stove unattended while burning.
- Ensure the chimney and flue are regularly inspected and cleaned by a qualified professional.

3. PRODUCT FEATURES

The EIDER BIOMASA IRIS wood stove is designed for efficient heating with a classic aesthetic. Key features include:

- **Powerful and Efficient Heating:** With a nominal power of 8.2 kW (10 kW total), it effectively heats spaces up to 170 m³.
- **Full Cast Iron Construction:** Ensures high resistance, excellent thermal inertia, and prolonged durability.
- **Functional Loading Chamber:** Designed for comfortable loading of long logs and uniform combustion.
- **Class A Energy Efficiency:** Optimizes wood consumption with an 82% efficiency rate.
- **Clean Glass System:** Helps keep the viewing window clear for an unobstructed view of the flames.
- **Primary Air Regulation:** Allows precise control over the initial combustion air.
- **Secondary Air Regulation:** Optimizes secondary combustion for increased efficiency and reduced emissions.
- **Ample Ash Drawer:** Facilitates easy ash removal.
- **Refractory Brick Lined Combustion Chamber:** Enhances heat retention and combustion efficiency.

4. SPECIFICATIONS

Specification	Value
Brand	EIDER BIOMASA
Model Number	ESL233013
Color	Black
Product Dimensions (L x W x H)	47 x 62 x 74 cm
Product Weight	144 kg
Thermal Power (Nominal)	8.2 kW
Thermal Power (Total)	10 kW
Heatable Volume	Up to 170 m ³
Material	Cast Iron + Refractory Brick
Energy Efficiency Class	A
Ventilation Type	Non-ventilated
Mounting Type	Freestanding

5. SETUP AND INSTALLATION

Installation of a wood stove requires adherence to local building codes and safety regulations. It is highly recommended to have the stove installed by a certified professional.

5.1 Unpacking and Inspection

- Carefully remove the stove from its packaging.

- Inspect the stove for any signs of damage during transit. Report any damage to the retailer immediately.
- Ensure all components listed in the packing list are present.

5.2 Location and Clearances

Choose a suitable location for your stove, ensuring it is on a non-combustible surface and maintains the required clearances from walls, furniture, and other combustible materials. Consult the specific installation manual provided with your stove for exact clearance requirements.

5.3 Chimney and Flue Connection

The stove must be connected to a properly sized and installed chimney or flue system. The chimney must be in good condition, free of obstructions, and capable of withstanding high temperatures. A professional chimney sweep or installer should verify the suitability of your chimney.



Figure 1: Front view of the EIDER BIOMASA IRIS wood stove, showcasing its compact design and glass door.



Figure 2: Angled view of the EIDER BIOMASA IRIS wood stove, highlighting the door handle and ash drawer.

6. OPERATING INSTRUCTIONS

Follow these steps for safe and efficient operation of your wood stove.

6.1 Fuel Type

Only use dry, seasoned hardwood. Softwoods burn faster and produce more creosote. Never use treated

wood, painted wood, trash, or accelerants.

6.2 Lighting the Stove

1. Open the primary air control fully.
2. Place crumpled paper or firelighters on the grate.
3. Stack small pieces of kindling on top of the paper/firelighters.
4. Light the paper/firelighters.
5. Once the kindling is burning well, add a few small logs.
6. Close the stove door, ensuring it is securely latched.

6.3 Adding Fuel

1. Before opening the door, ensure the primary air control is fully open for a few moments to increase draft.
2. Carefully open the stove door.
3. Place new logs onto the hot embers. Do not overfill the combustion chamber.
4. Close the door securely.

6.4 Air Control Adjustment

The EIDER BIOMASA IRIS stove features primary and secondary air controls for optimal combustion.

- **Primary Air Control:** Located below the combustion chamber (often a slider on the ash drawer). This controls the air entering from below the grate, crucial for ignition and burning solid fuel. Keep it open during ignition and when adding new fuel. Once the fire is established, you can reduce it to control the burn rate.
- **Secondary Air Control:** Located above the main door (often a slider or lever). This introduces preheated air into the upper part of the combustion chamber, promoting cleaner and more efficient burning of gases. Adjust this to achieve clear, lively flames and minimize smoke.



Figure 3: Interior view of the combustion chamber with the door open, showing the refractory bricks and the ash pan below the grate.



Figure 4: Close-up of the primary air control lever, typically located on the ash drawer, used to regulate air for initial combustion.



Figure 5: Top part of the stove, indicating the location of the secondary air intake control, which helps in cleaner burning.

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Video 1: This video demonstrates the features of an EIDER BIOMASA wood stove, including the clean glass system, primary and secondary air regulation, and how to load wood. It provides a visual guide to the stove's operation and internal components.

7. MAINTENANCE

Regular maintenance is crucial for the safe and efficient operation of your EIDER BIOMASA IRIS wood stove.

7.1 Ash Removal

Empty the ash drawer regularly to prevent ash buildup from obstructing the primary air intake. Allow the stove to cool completely before removing ash. Use a metal container with a tight-fitting lid for ash disposal.



Figure 6: Interior view of the combustion chamber, showing the refractory bricks and the cast iron grate where wood is burned.



Figure 7: Detailed view of the cast iron grate, designed to support burning wood and allow ash to fall into the ash pan.

7.2 Glass Cleaning

The clean glass system helps reduce soot buildup. If the glass becomes dirty, clean it when the stove is cold using a specialized glass cleaner for wood stoves. Do not use abrasive cleaners.

7.3 Chimney and Flue Cleaning

Have your chimney and flue system inspected and cleaned by a certified chimney sweep at least once a year, or more frequently if you burn wood continuously. This prevents creosote buildup, which can lead to chimney fires.

7.4 General Inspection

Periodically check the stove door gasket for wear and tear. A worn gasket can lead to air leaks, reducing efficiency. Inspect the refractory bricks for cracks or damage and replace them if necessary.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your wood stove.

8.1 Poor Draft / Smoke Backing Up

- **Cause:** Cold chimney, blocked chimney, improper air settings, wet wood.
- **Solution:** Ensure chimney is warm before lighting (use a firelighter at the top of the firebox). Check for chimney obstructions. Adjust primary and secondary air controls. Use dry, seasoned wood.

8.2 Fire Not Burning Hot Enough

- **Cause:** Insufficient air, wet wood, too much ash in the ash pan.
- **Solution:** Open primary air control more. Ensure wood is dry. Empty ash pan.

8.3 Excessive Creosote Buildup

- **Cause:** Burning wet wood, restricted air supply, low burning temperatures.
- **Solution:** Burn only dry wood. Ensure adequate air supply for a hot burn. Have chimney professionally cleaned.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact EIDER BIOMASA directly. For technical support, spare parts, or service inquiries, please reach out to your authorized dealer or the manufacturer's customer service department. Always provide your model number (ESL233013) and purchase date when contacting support.

You can find more information and contact details on the official EIDER BIOMASA website or through your retailer.