

Ravelli HRB 160 Hydro

Ravelli HRB 160 Hydro 20 kW Ventilated Pellet Hydro-Stove User Manual

Model: **HRB 160 Hydro** | Brand: **Ravelli**

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Ravelli HRB 160 Hydro 20 kW Ventilated Pellet Hydro-Stove. Please read this manual thoroughly before installing or operating the appliance. Retain this manual for future reference.

The Ravelli HRB 160 Hydro is a sophisticated heating appliance designed to provide efficient heating through a water-based system, while also offering supplementary room ventilation. It utilizes wood pellets as fuel, offering an environmentally conscious heating solution.

2. SAFETY INFORMATION

- **Professional Installation:** Installation must be performed by qualified personnel in accordance with local and national regulations.
- **Fuel Type:** Use only high-quality wood pellets as specified by the manufacturer. Do not use other fuels.
- **Ventilation:** Ensure adequate ventilation in the installation area.
- **Clearances:** Maintain specified clearances from combustible materials. Refer to the installation diagram for exact distances.
- **Hot Surfaces:** The stove surfaces, especially the glass and metal parts, become very hot during operation. Avoid contact to prevent burns. Keep children and pets away.
- **Maintenance:** Regular cleaning and maintenance are crucial for safe and efficient operation. Disconnect power before performing any maintenance.
- **Emergency Shut-off:** Familiarize yourself with the procedure to safely shut down the stove in an emergency.

3. SETUP

3.1 Unpacking and Inspection

Carefully unpack the stove and inspect it for any damage that may have occurred during transit. Report any damage to your supplier immediately. Ensure all components listed in the packing list are present.

3.2 Placement

The stove must be placed on a non-combustible floor or on a suitable protective hearth. Ensure the chosen location allows for proper flue connection, access for maintenance, and sufficient air circulation.

3.3 Flue Gas Connection

Connect the stove to a dedicated and properly sized flue system. All connections must be sealed to prevent leakage of flue gases. Consult a qualified technician for flue system design and installation.

3.4 Hydraulic Connections (Hydro System)

Connect the stove to your central heating system's water circuit. This involves connecting the flow and return pipes. Ensure all connections are watertight and that the system is properly filled and bled of air. An expansion vessel, safety valve, and pressure gauge must be installed as per local regulations.

3.5 Electrical Connection

Connect the stove to a grounded electrical outlet. The electrical supply must match the specifications provided on the appliance's rating plate. It is recommended to install a dedicated circuit breaker for the stove.

3.6 Pellet Loading

Open the pellet hopper lid and carefully pour wood pellets into the hopper. Ensure no foreign objects enter the hopper. Do not overfill.



Image 1: The Ravelli HRB 160 Hydro 20 kW Ventilated Pellet Hydro-Stove, illustrating its design with the internal pellet feeding mechanism visible on the left and the modern front panel with a glass door on the right. This view highlights the compact structure and the integration of the combustion chamber with the water heating components.

4. OPERATING INSTRUCTIONS

4.1 Control Panel Overview

The control panel typically features a display, power button, temperature adjustment buttons, and mode selection buttons. Refer to the detailed diagram in your specific model's manual for exact button functions.

4.2 Initial Startup

1. Ensure the pellet hopper is filled and all connections (flue, hydraulic, electrical) are secure.
2. Press the power button to turn on the stove.
3. The stove will initiate an ignition sequence, which includes pre-heating the igniter and feeding pellets into the burner pot.
4. Once ignited, the stove will enter its operating phase.

4.3 Adjusting Temperature and Power

Use the temperature adjustment buttons on the control panel to set the desired water temperature for your heating system. The stove will automatically modulate its pellet feed and fan speed to maintain this temperature. Some models also allow direct adjustment of the power level.

4.4 Ventilation Control

The HRB 160 Hydro includes a ventilation feature. Use the dedicated controls on the panel to adjust the fan speed for room air distribution, if applicable. This function can often be operated independently or in conjunction with the heating cycle.

4.5 Shutting Down the Stove

Press the power button to initiate the shutdown sequence. The stove will stop feeding pellets and run the fans to cool down before completely turning off. Do not unplug the stove during the cooling cycle.

5. MAINTENANCE

Regular maintenance is essential for the longevity and efficient operation of your pellet hydro-stove. Always ensure the stove is cool and disconnected from the power supply before performing any maintenance.

5.1 Daily Maintenance

- **Ash Removal:** Empty the ash pan daily or as needed. Use a vacuum cleaner designed for ash.
- **Burner Pot Cleaning:** Clean the burner pot (brazier) to remove any clinker or unburnt pellets. Ensure all air holes are clear.
- **Glass Cleaning:** Clean the inside of the glass door with a suitable glass cleaner for stoves when cool.

5.2 Weekly/Monthly Maintenance

- **Heat Exchanger Cleaning:** Clean the heat exchanger tubes using the provided tool or a brush to remove soot and ash buildup.
- **Hopper Inspection:** Inspect the pellet hopper for any dust or debris.
- **General Cleaning:** Clean the exterior surfaces of the stove.

5.3 Annual Professional Service

It is highly recommended to have your Ravelli HRB 160 Hydro serviced annually by a qualified technician. This service typically includes:

- Thorough cleaning of the flue system and internal components.
- Inspection of all electrical and hydraulic connections.
- Checking and replacing worn parts if necessary.
- Combustion analysis and optimization.

6. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems or error codes not listed, contact a qualified service technician.

6.1 Stove Does Not Ignite

- **Check Pellet Level:** Ensure the hopper has sufficient pellets.
- **Check Burner Pot:** Ensure the burner pot is clean and free of obstructions.
- **Igniter Failure:** If the igniter is not glowing, it may need replacement by a technician.

6.2 Low Heat Output

- **Pellet Quality:** Ensure you are using high-quality pellets.
- **Heat Exchanger:** Clean the heat exchanger thoroughly.
- **System Pressure:** Check the hydraulic system pressure.
- **Settings:** Verify the power and temperature settings on the control panel.

6.3 Excessive Smoke or Soot

- **Flue System:** Inspect the flue for blockages or leaks.
- **Air Intake:** Ensure the air intake is not obstructed.
- **Pellet Quality:** Poor quality pellets can cause excessive soot.

7. SPECIFICATIONS

- **Model:** Ravelli HRB 160 Hydro
- **Power Output:** 20 kW
- **Fuel Type:** Wood Pellets
- **Weight:** Approximately 60 kg
- **Material (Front Panel/Door):** Glass
- **ASIN:** B01C2W80VK

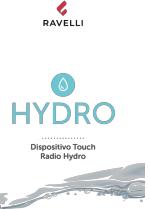
8. WARRANTY AND SUPPORT

Your Ravelli HRB 160 Hydro 20 kW Ventilated Pellet Hydro-Stove is covered by a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions, including duration and coverage details. Keep your proof of purchase for warranty claims.

For technical support, spare parts, or warranty service, please contact your authorized Ravelli dealer or the customer service department. Ensure you have your model number and serial number available when contacting support.

Related Documents - HRB 160 Hydro

	Ravelli RCV 1000 Pellet Stove: Use and Maintenance Manual Comprehensive use and maintenance manual for the Ravelli RCV 1000 pellet stove, covering installation, operation, safety, maintenance, and technical specifications. Learn how to operate and care for your Ravelli pellet stove.
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 <small>MANUAL DE USO Y MANTENIMIENTO</small>	<p><u>Manual de Uso y Mantenimiento Ravelli Hydro Dispositivo Touch Radio Hydro</u></p> <p>Manual completo de uso y mantenimiento para el Dispositivo Touch Radio Hydro de Ravelli. Cubre instalación, operación, seguridad, mantenimiento y solución de problemas.</p>
 <small>USE AND MAINTENANCE MANUAL</small>	<p><u>Ravelli Pellet Stove Use and Maintenance Manual: Vittoria V, Atena V, RV 120 Touch</u></p> <p>Comprehensive use and maintenance manual for Ravelli pellet stoves, including models Vittoria V, Atena V, and RV 120 Touch. Covers installation, operation, safety, technical features, maintenance, and troubleshooting.</p>
 <small>EASY 7 ADV EASY 9 ADV</small>	<p><u>Manuale di Installazione, Uso e Manutenzione Ravelli Easy 7 ADV / Easy 9 ADV</u></p> <p>Guida completa per l'installazione, l'uso sicuro e la manutenzione delle stufe a pellet Ravelli Easy 7 ADV e Easy 9 ADV. Include specifiche tecniche, procedure di sicurezza e risoluzione problemi.</p>
 <small>USE AND MAINTENANCE MANUAL</small>	<p><u>Ravelli Pellet Stove Use and Maintenance Manual: Francesca, RV 80 Ceramica, Nicole, RV 100 Classic, Roma</u></p> <p>Comprehensive use and maintenance manual for Ravelli pellet stoves with RDS technology, covering models Francesca, RV 80 Ceramica, Nicole, RV 100 Classic, and Roma. Includes installation, operation, safety, maintenance, and troubleshooting guidelines.</p>
 <small>MANUALE D'USO E MANUTENZIONE RBC 8010 / RBC 8012</small>	<p><u>Manuale d'Uso e Manutenzione Ravelli RBC 8010 / RBC 8012</u></p> <p>Scopri il manuale completo per l'installazione, l'uso e la manutenzione delle stufe a pellet Ravelli RBC 8010 e RBC 8012. Informazioni essenziali per un funzionamento sicuro ed efficiente.</p>