

Ravelli HR 160 Snella

Ravelli HR 160 Snella Hydro 20.0 kW Pellet Heater User Manual

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation, installation, and maintenance of your Ravelli HR 160 Snella Hydro 20.0 kW Pellet Heater. Please read this manual thoroughly before installing or operating the appliance. Retain this manual for future reference.

2. SAFETY INFORMATION

Always prioritize safety when installing, operating, or maintaining your pellet heater. Failure to follow these safety guidelines can result in property damage, serious injury, or death.

- **Professional Installation:** Installation of this hydro pellet heater must be performed by qualified and certified personnel in accordance with all local and national building codes and regulations.
- **Ventilation:** Ensure adequate ventilation in the installation area. Do not obstruct air inlets or outlets.
- **Fuel:** Use only approved wood pellets as fuel. Do not use gasoline, kerosene, or other flammable liquids.
- **Clearances:** Maintain specified clearances from combustible materials. Refer to installation diagrams for exact distances.
- **Carbon Monoxide:** Install carbon monoxide detectors in your home.
- **Hot Surfaces:** The heater surfaces become very hot during operation. Avoid contact and keep children and pets away.
- **Electrical Safety:** Ensure the electrical supply meets the heater's requirements and is properly grounded.

3. PRODUCT OVERVIEW

The Ravelli HR 160 Snella Hydro 20.0 kW is a high-efficiency pellet heater designed to provide central heating. It features a robust steel combustion chamber, a ceramic glass door resistant to 750 °C, and an elegant majolica coating.



Figure 1: Ravelli HR 160 Snella Hydro 20.0 kW Pellet Heater.

This image displays the Ravelli HR 160 Snella Hydro 20.0 kW Pellet Heater. The unit features a modern design with a two-tone finish, primarily beige/brown panels on the left and a darker panel on the right housing the combustion chamber with a visible flame through the ceramic glass door. A narrow white vertical strip separates the left and right sections. The side panels appear to have ventilation perforations.

4. SETUP AND INSTALLATION

Installation of the Ravelli HR 160 Snella Hydro pellet heater requires specialized knowledge due to its connection to a central heating system. It is mandatory to have this appliance installed by a certified professional.

4.1 Site Selection

- Choose a location with sufficient space for clearances and maintenance access.
- Ensure the floor can support the heater's weight (210 kg).
- The location must comply with local fire safety regulations regarding proximity to combustible materials.

4.2 Chimney and Flue Connection

- Connect the heater to an approved chimney or flue system.
- All connections must be sealed properly to prevent smoke and carbon monoxide leaks.
- Ensure the chimney is clean and free of obstructions.

4.3 Water System Connection (Hydro Model)

- Connect the heater to the central heating system's water pipes.
- Install all necessary safety valves, expansion tanks, and circulation pumps as per system design and local codes.
- Fill and bleed the water system to remove air.

4.4 Electrical Connection

- Connect the heater to a dedicated, grounded electrical outlet.

- Verify that the voltage and frequency match the heater's requirements.

5. OPERATING INSTRUCTIONS

5.1 Initial Startup

1. Ensure the pellet hopper is filled with quality wood pellets.
2. Verify all safety checks have been completed by the installer.
3. Turn on the main power switch for the heater.

5.2 Loading Pellets

Open the pellet hopper lid and pour wood pellets into the hopper. Do not overfill. Ensure the lid is securely closed after filling.

5.3 Ignition Process

1. Access the control panel (refer to the specific model's control panel diagram).
2. Select the desired operating mode (e.g., "Auto," "Manual").
3. Initiate the ignition sequence. The heater will automatically feed pellets and activate the igniter.
4. Monitor the flame through the ceramic glass door. Ignition typically takes several minutes.

5.4 Temperature Control

Adjust the desired room temperature or water temperature using the integrated thermostat or control panel settings. The heater will modulate its output to maintain the set temperature.

5.5 Shutdown Procedure

1. To turn off the heater, select the "Off" mode on the control panel.
2. The heater will enter a cooling cycle, burning off remaining pellets and allowing components to cool down safely.
3. Do not turn off the main power switch until the cooling cycle is complete.

6. MAINTENANCE

Regular maintenance is crucial for the longevity, efficiency, and safe operation of your pellet heater. Always ensure the heater is completely cool and disconnected from power before performing any maintenance.

6.1 Daily/Weekly Cleaning

- **Ash Removal:** Empty the ash pan regularly. Use a vacuum cleaner designed for ash.
- **Combustion Chamber:** Clean any ash or unburnt pellets from the combustion chamber and burn pot.
- **Ceramic Glass:** Clean the ceramic glass door with a specialized glass cleaner for wood stoves when cool.

6.2 Annual Professional Service

It is highly recommended to have your Ravelli HR 160 Snella Hydro pellet heater inspected and serviced by a certified technician at least once a year, preferably before the heating season. This service typically includes:

- Thorough cleaning of the flue pipes and chimney.
- Inspection and cleaning of internal components (fans, heat exchangers).
- Checking electrical connections and safety devices.

- Verification of water system integrity and pressure.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here or if solutions do not resolve the issue, contact a qualified service technician.

Problem	Possible Cause	Solution
Heater does not ignite.	No pellets in hopper, igniter failure, blocked burn pot, safety switch open.	Fill hopper, check igniter (professional), clean burn pot, ensure all doors/panels are closed.
Low heat output.	Poor quality pellets, dirty heat exchanger, incorrect temperature setting, flue obstruction.	Use high-quality pellets, clean heat exchanger (professional), adjust thermostat, check flue.
Excessive smoke.	Blocked flue, wet pellets, insufficient air supply.	Clean flue, use dry pellets, check air intake.
Water system not heating.	Low water pressure, air in system, pump failure.	Check pressure gauge, bleed radiators, contact professional for pump inspection.

8. SPECIFICATIONS

Technical specifications for the Ravelli HR 160 Snella Hydro 20.0 kW Pellet Heater:

Model: Ravelli HR 160 Snella Hydro

Total Heat Output: 20.0 kW (68,242.8 BTU)

Water Heat Output: 16 kW H2O

Heated Volume: Up to 430 m³ (Suitable for spaces up to 172 sq meters)

Dimensions (D x W x H): 36.9 cm x 85.8 cm x 116.8 cm

Weight: 210 kg

Pellet Capacity: 30 kg

Combustion Chamber Material: Steel

Door Material: Ceramic glass (resistant to 750 °C)

Coating: Majolica

Efficiency: High efficiency

Mounting Type: Standalone

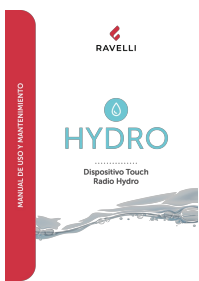
Special Features: Quick heating, electronic thermostat

9. WARRANTY AND SUPPORT

Warranty information for your Ravelli HR 160 Snella Hydro 20.0 kW Pellet Heater is typically provided at the time of purchase or included with the product packaging. Please refer to these documents for details regarding coverage, terms, and conditions.

For technical support, spare parts, or service inquiries, please contact your authorized Ravelli dealer or the manufacturer directly. Ensure you have your product model number (HR 160 Snella Hydro) and serial number available when seeking assistance.

Related Documents - HR 160 Snella

	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.
	Ravelli Pellet Stove Use and Maintenance Manual: Vittoria V, Atena V, RV 120 Touch 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.
	Ravelli Pellet Stove Use and Maintenance Manual: Francesca, RV 80 Ceramica, Nicole, RV 100 Classic, Roma 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.
	Ravelli R 1000 Pro Pellet Stove: Use and Maintenance Manual Comprehensive guide for the Ravelli R 1000 Pro pellet stove by Aico S.p.A., covering installation, operation, safety, maintenance, and troubleshooting for efficient domestic heating.
	Manual de Uso y Mantenimiento Ravelli Hydro Dispositivo Touch Radio Hydro Manual completo de uso y mantenimiento para el Dispositivo Touch Radio Hydro de Ravelli. Cubre instalación, operación, seguridad, mantenimiento y solución de problemas.
	Ravelli Stilo Stone Environmental Certification - Kiwa Cermet Italia Environmental certification for Ravelli Stilo Stone pellet stoves, confirming compliance with EN 14785:2006 and CEN/TS 15883:2009 standards, issued by Kiwa Cermet Italia S.p.A. Details performance, emissions, and classification.



[\[pdf\]](#) User Manual Datasheet

HR 160 SNELLA PLUS 5 1 Manuale Ravelli Snella Plus ita ravelligroup it 01 product documents 40001NR06 |||

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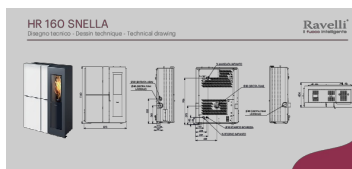


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Rapporto/Report No. K 2384 2018 B4

Decreto 7 Novembre 2017, n. 186
Certificazione ambientale del generatore di
calore

Modello / Model:
HR 160 Snella Plus

Produttore / Manufacturer:
Aico S.p.A.

Marchio commerciale / Trademark:
Ravelli

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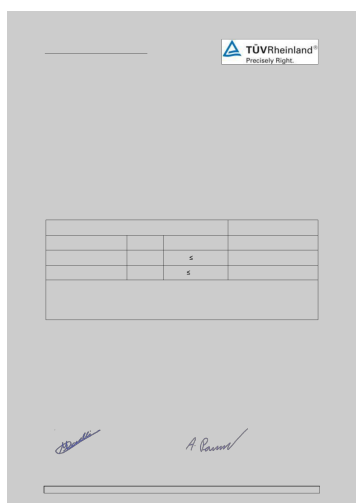
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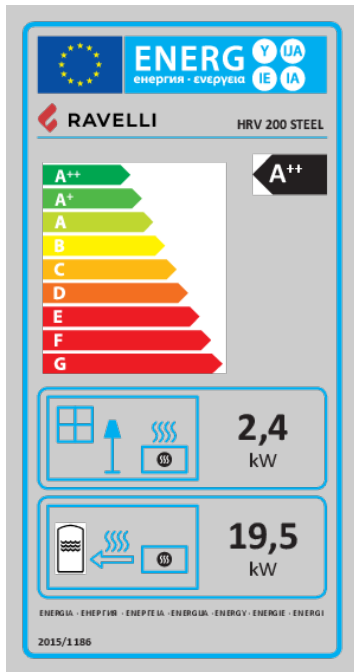
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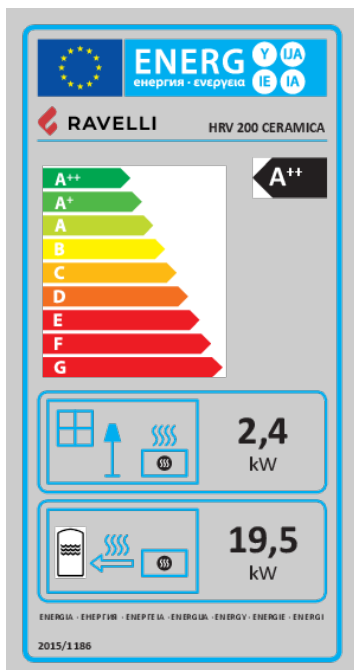
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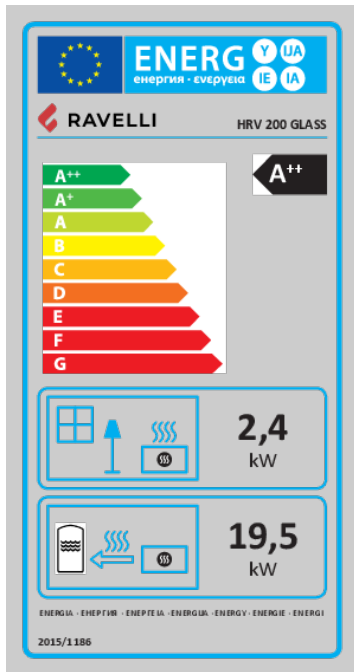
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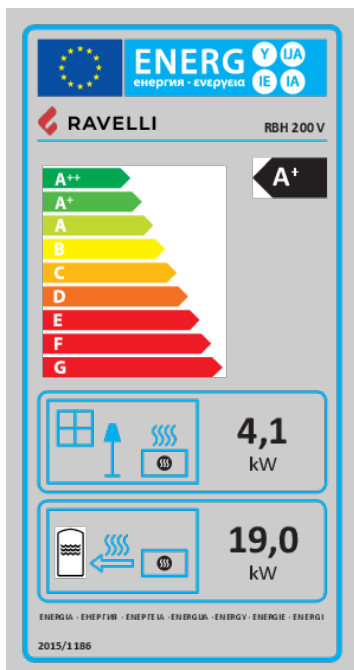
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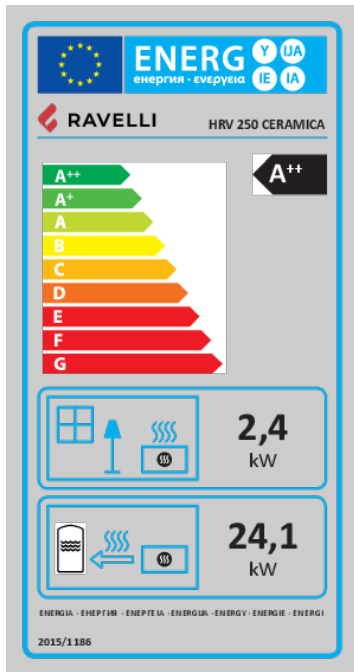
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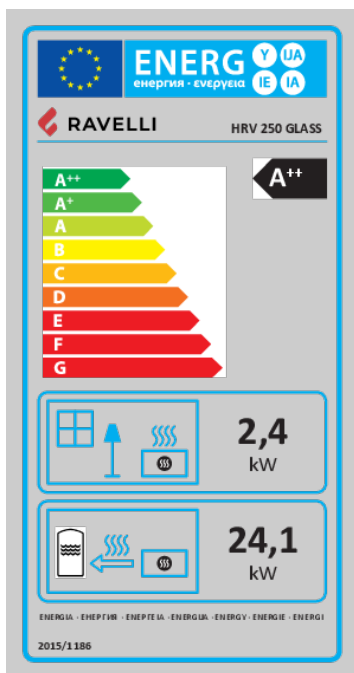


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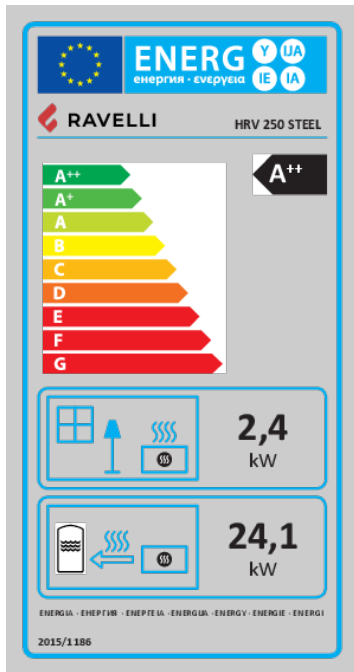


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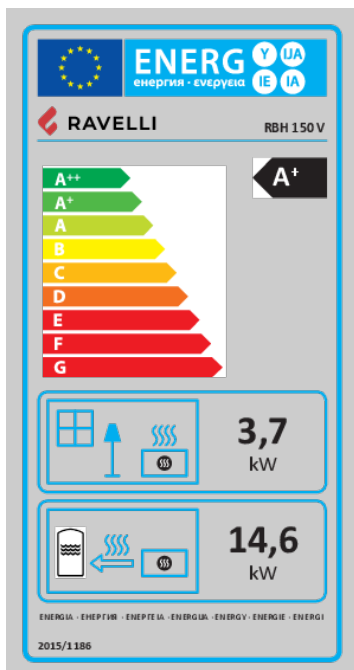
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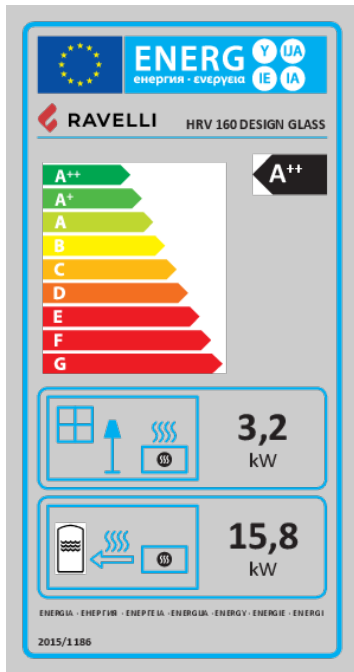
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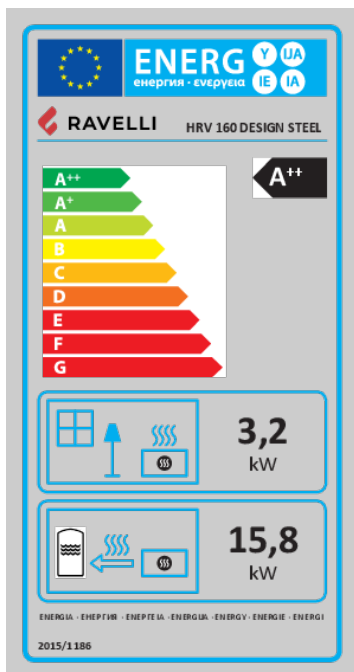


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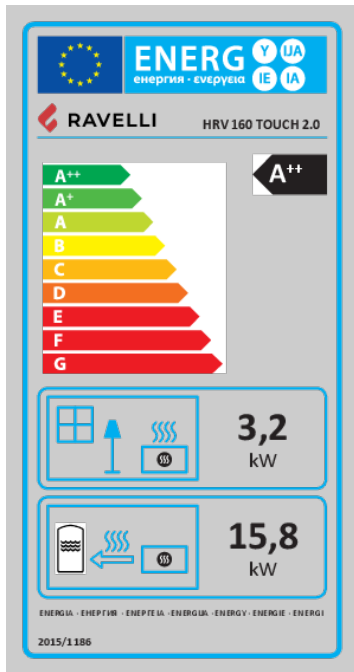


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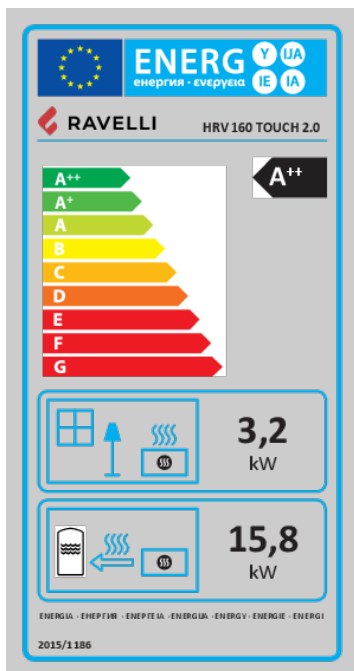
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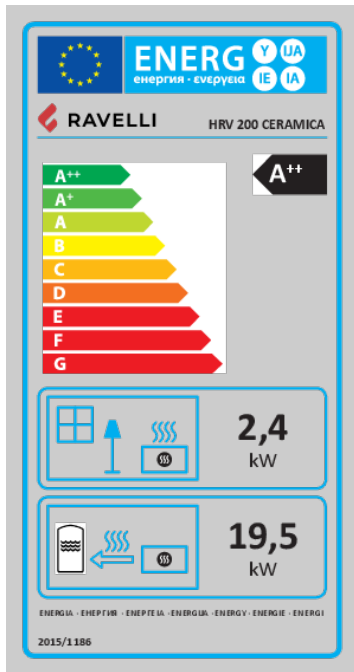
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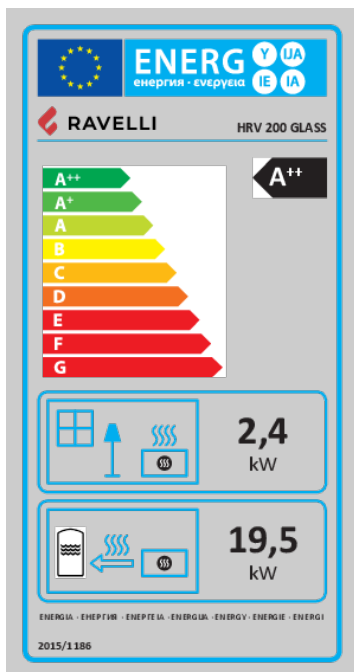
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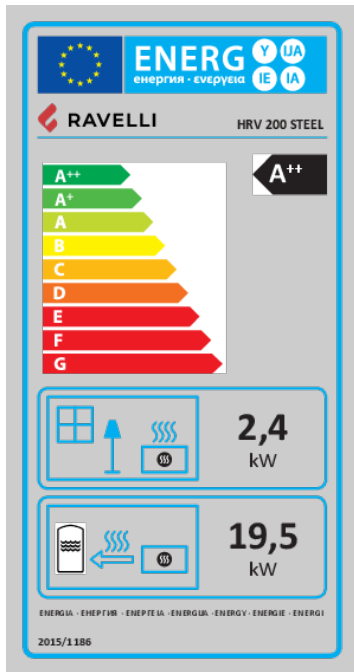
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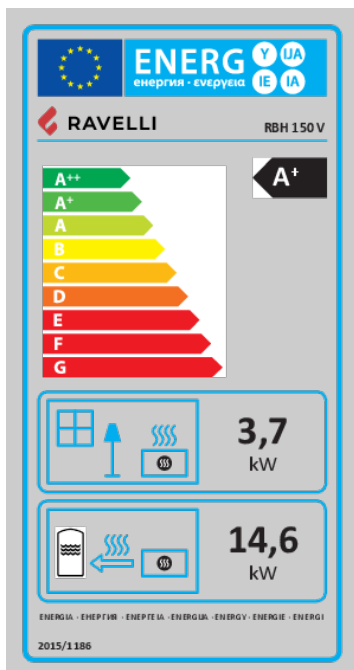


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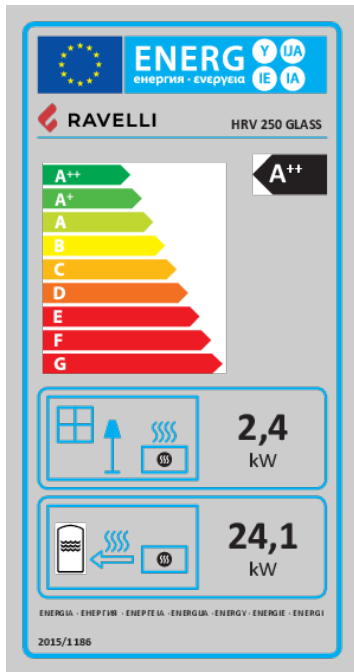


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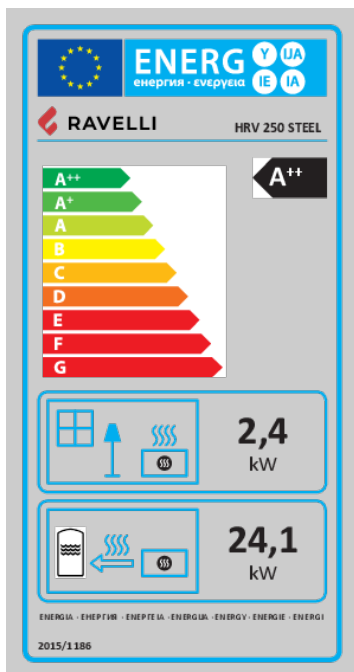


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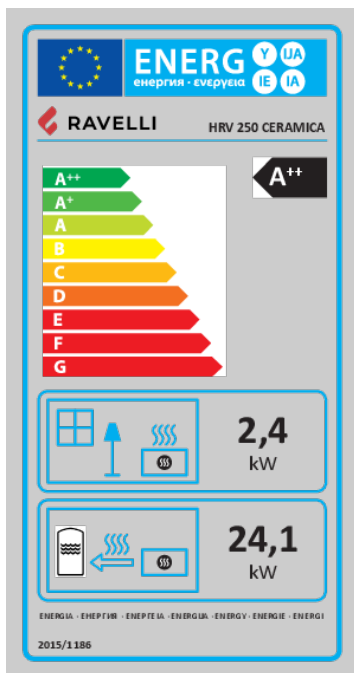


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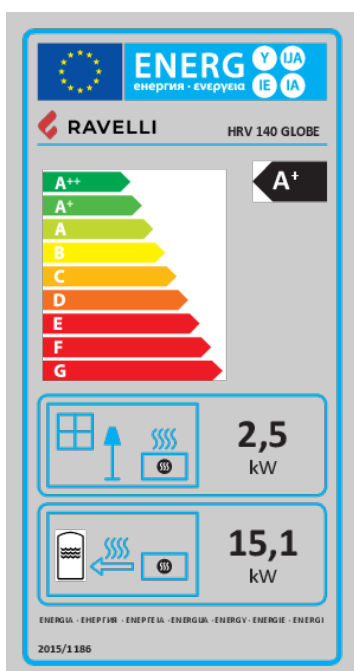
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16 1 EnergyLabel Ravelli HR 160 SNELLA PLUS Etiquette énergétiqueHRV 250 Ravelli16 HRV

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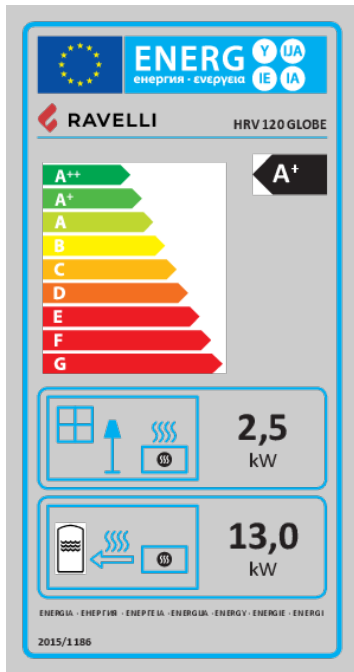
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16 1 EnergyLabel Ravelli HR 160 SNELLA PLUS Energy label HRV 140 Globe eng ravelligroup it 01

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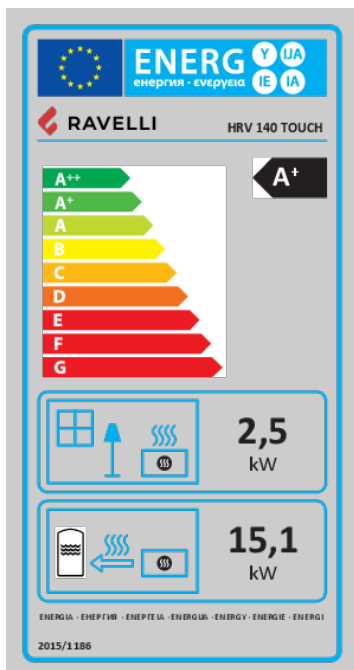
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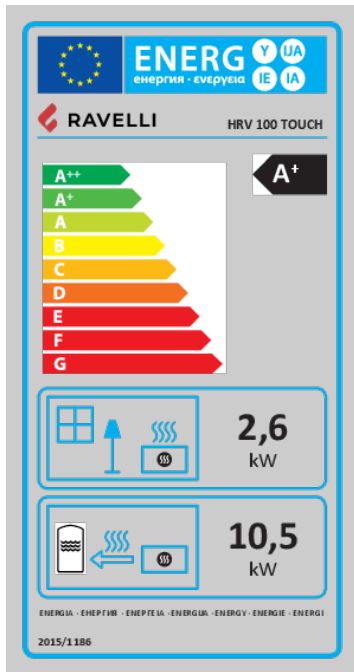
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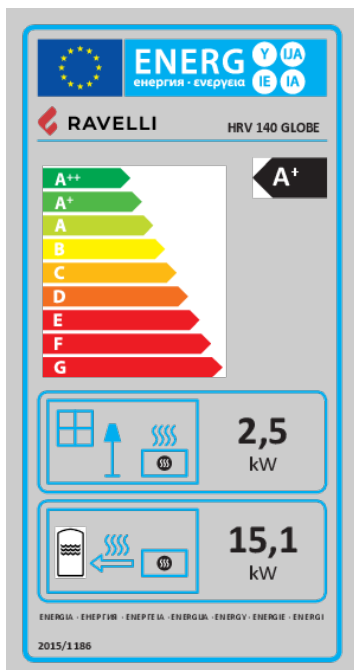
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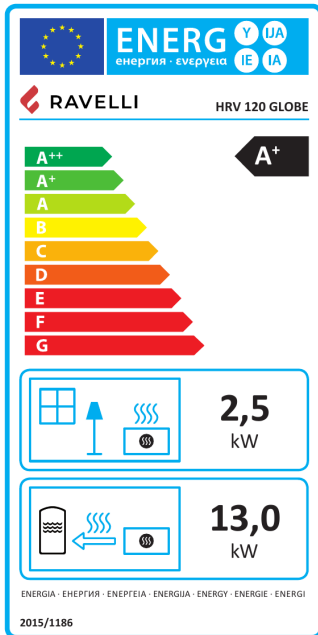
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16 1 EnergyLabel Ravelli HR 160 SNELLA PLUS Etiquette énergétiqueHRV 140 Globe Ravelli16 HRV

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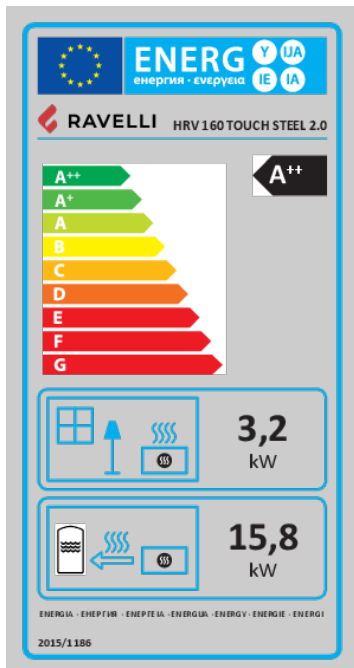
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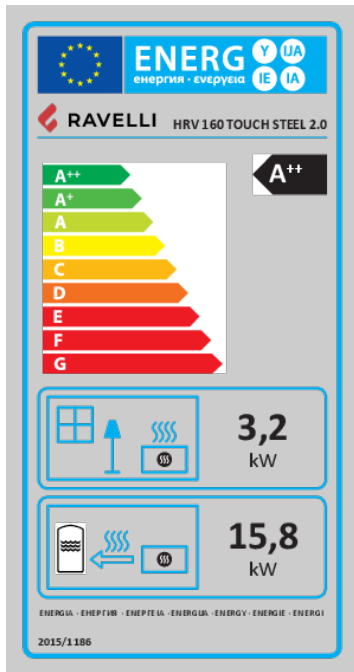
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01 product documents 069 00 001A 5 stelle |||
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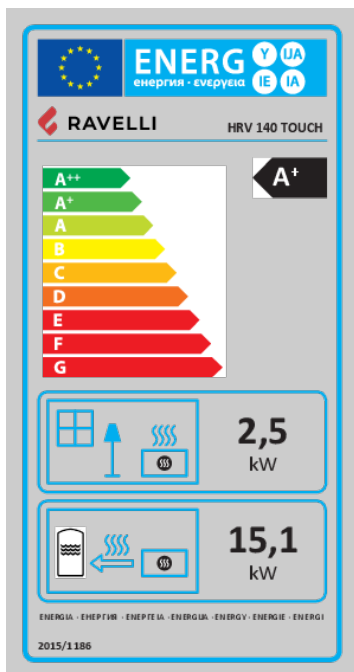
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16 1 EnergyLabel Ravelli HR 160 SNELLA PLUS Etiquette énergétiqueHRV Touch Steel Ravelli16 HRV

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HRV 160 TOUCH STEEL 2.0 A A AA AA A B C D E F G 3,2 kW 15,8 kW ENERGIA
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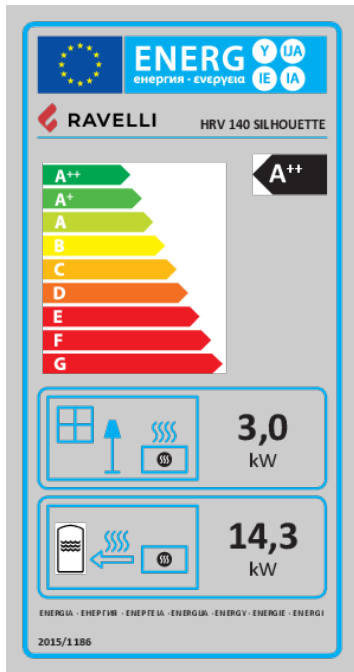
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16 1 EnergyLabel Ravelli HR 160 SNELLA PLUS Etiquette énergétiqueHRV 140 TOUCH Ravelli16 HRV

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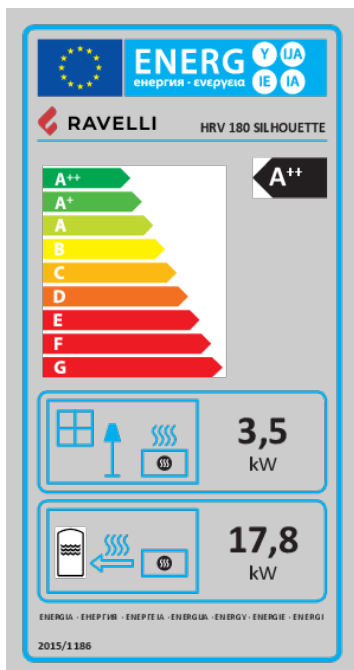
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[Ravelli HRV 140 Silhouette Energy Efficiency Label](#)

Detailed energy efficiency label for the Ravelli HRV 140 Silhouette heater, showing its A++ energy class and performance data including 3.0 kW room heating and 14.3 kW boiler output, according to regulation 2015/1186.

lang:it score:14 filesize: 272.77 K page_count: 1 document date: 2021-04-12



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16 1 EnergyLabel Ravelli HR 160 SNELLA PLUS a b c d e f g 2015 1186 3 5 kw 17 8 energia · ЕНЕРГИЯ ЕΝΕΡΓΕΙΑ energija energy energie energi hrv 180 silhouette Hrv180Silhouette etichetta eng ravelligroup it UserFiles files Energy cert label |||

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