Technical and Operational Documentation

Pellet Sauna Stove

2026

01/09/01/26-HDL

Dear User!

Thank you for purchasing a high-quality pellet stove for your sauna, and congratulations on making a good choice. The product you have purchased meets the highest energy efficiency and environmental standards. Please remember that before operating the stove, you should carefully read this documentation as well as the documentation for the individual components. This will ensure the proper and safe operation of the purchased device.
At the time of purchase, please check that the stove equipment is complete. This product has been designed and manufactured to be used as a sauna stove intended solely for heating a sauna.
The appearance of the stove must not be modified. Only original spare parts and accessories recommended by the manufacturer should be used.

Do not heat the stove if you do not have basic knowledge of how to use it or if your health condition does not allow you to use a sauna. In particular, the use of the sauna is strictly prohibited for persons under the influence of intoxicating substances.
Sauna stoves must not be operated by minors. Do not leave children unattended in the sauna.
The sauna is not intended to be used as a room for drying clothes.

Yours sincerely,
Vasti

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The manufacturer reserves the right to make design changes to the product as part of product improvements, without the obligation to include such changes in this manual.

1. INTRODUCTION AND GENERAL INFORMATION

This manual has been prepared to ensure the safe and proper operation of the pellet stove. The device has been designed and manufactured using high-quality components, in accordance with applicable standards and modern technological requirements.
The production process is carried out in compliance with strict quality requirements. The information contained in this manual is valid as of the date of its preparation, and the manufacturer reserves the right to introduce design and technical modifications in order to improve the quality of the product.

2. INTENDED USE AND SAFE OPERATION

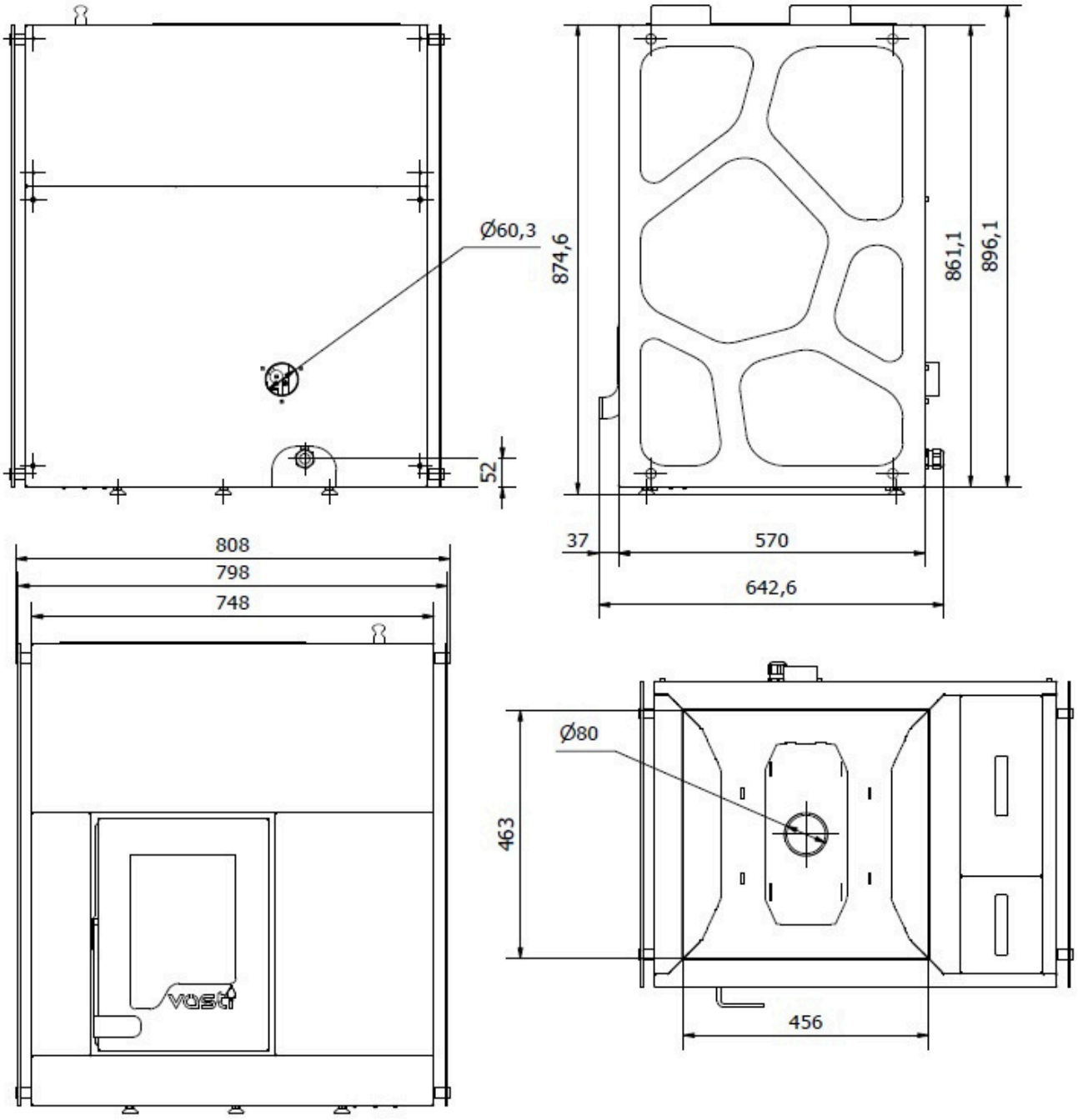
The stove is intended exclusively for heating sauna rooms with a volume consistent with the manufacturer's technical specifications. The device ensures even heating of the stones, enabling optimal thermal and humidity conditions in the sauna.
Before installation, make sure that the device is complete and undamaged. Installation should be carried out by qualified personnel in accordance with the applicable regulations of the country of use.
The stove must be used strictly in accordance with this manual – any other use is considered improper and may be dangerous. The manufacturer assumes no responsibility and provides no warranty in the event of improper installation or use.

3. DESCRIPTION OF THE PELLET

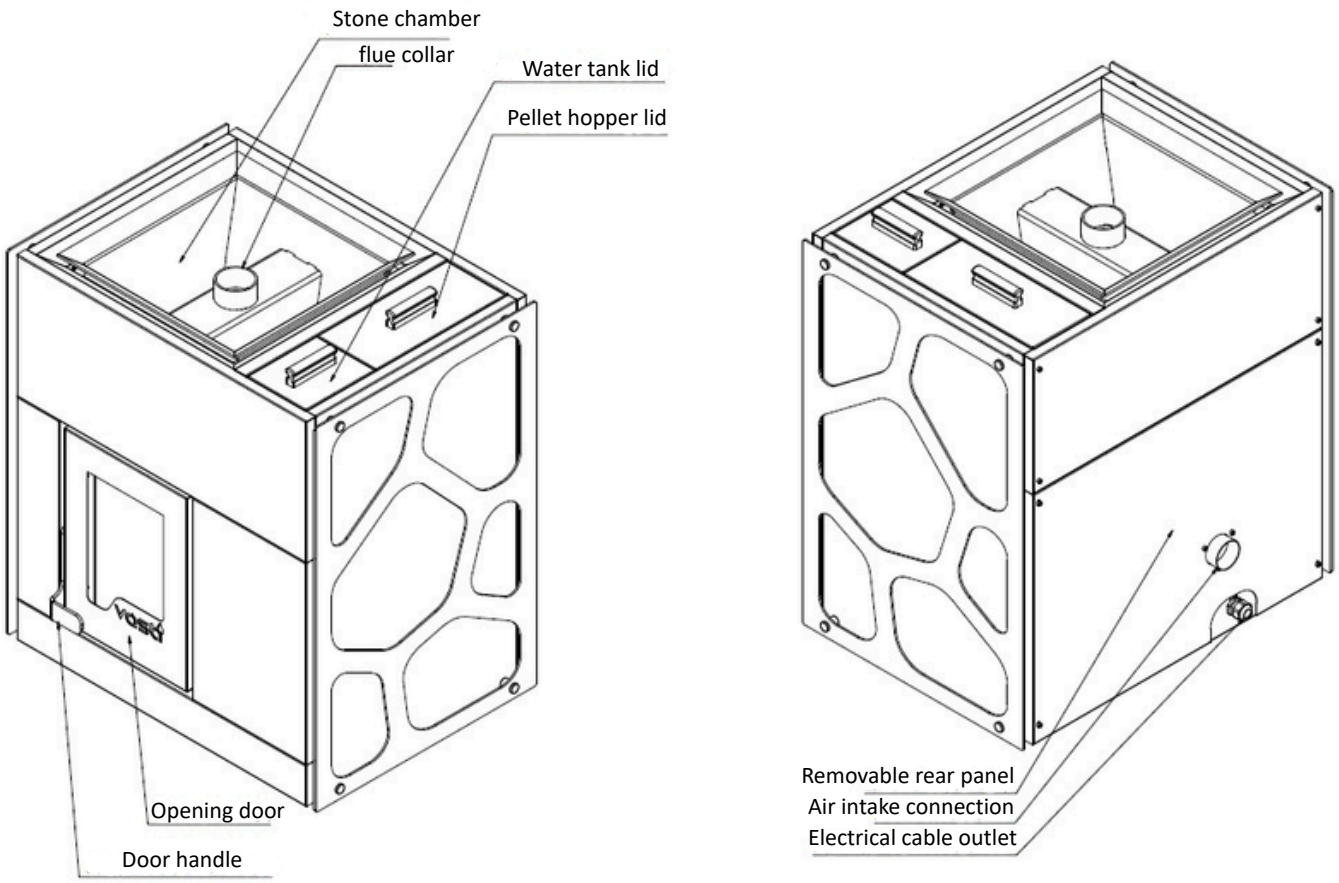
3.1. Stove Construction

The pellet stove consists of a body made of materials resistant to high temperatures and corrosion, ensuring safe operation in sauna conditions. Its design includes a built-in pellet hopper that allows fuel storage and its automatic feeding into the combustion chamber, eliminating the need for frequent refilling during sauna use.
The device is also equipped with a water tank. The tank is intended exclusively for storing water, which the user can manually draw to pour over the sauna stones. This solution provides a practical alternative to a separate water container placed next to the stove.
Operation of the stove is facilitated by a dedicated control interface that allows adjustment of operating settings and switching the stove on and off. The thermal energy generated during pellet combustion is transferred to the air in the sauna and to the water container, while combustion gases are discharged outside through the flue system.
Additionally, the stove operates with an external wireless thermostat, which enables convenient control of the sauna temperature without the need for direct access to the stove.

(FIG. 1 Dimensions of the Pellet Sauna Stove)



(FIG. 2 Structural Diagram of the Pellet Sauna Stove)



3.2. Principle of Operation

The stove operates on the principle of automatic pellet combustion. Pellets are an ecological renewable fuel whose combustion does not increase CO_2 emissions, while the amount of ash produced is minimal. Pellets from the built-in hopper are fed into the combustion chamber, where they are completely burned, generating thermal energy.

The stove heats the stones, which produce steam when water is poured over them. The control interface allows adjustment of the stove's operating parameters, including temperature and operating time, while an external wireless thermostat enables convenient control of the temperature inside the sauna.

3.3. Stove Equipment

The stove is equipped with a built-in pellet hopper, a sealed water container, a dedicated control interface, a flue gas exhaust system, and an external wireless thermostat. These elements ensure convenient operation, safety, and efficient production of heat and steam in the sauna.

3.4. Technical Data

Table 1. Technical parameters of the VENMA pneumatic feeder.

Device type	Pellet Sauna Stove
• Boiler power (kW)	16
• Stove height (mm)	862
• Stove height with legs (mm)	862 +/- 15
• Stove width (mm)	798
• Stove depth (mm)	570
• Sauna volume (m^3)	6-16
• Maximum stone weight (kg)	35-40
• Chimney connection diameter (mm)	80
• Stove weight (without stones) (kg)	100
• Stove power supply (V)	220
• Water tank capacity (L)	7,5
• Pellet hopper capacity (L)	21
• Stove body thickness (mm)	4
• Air intake outlet diameter (mm)	60

3.5. Fuel

The pellet sauna stove uses granulated wood material – pellet – which is a fully renewable and environmentally friendly fuel. Pellets are produced from compressed sawdust and wood waste without the addition of chemical substances, which ensures clean combustion and minimal environmental impact. Pellet combustion does not increase carbon dioxide emissions, and the amount of ash produced is very small, which makes it easier to keep the stove clean.

The optimal pellet for sauna use is characterized by granules with a diameter of 6–8 mm and a moisture content not exceeding 10%, which guarantees efficient and stable combustion. The calorific value of pellets averages 16–18 MJ/kg, ensuring high energy efficiency with a relatively small amount of fuel.

Thanks to the density and compression of the granules, pellets allow automatic feeding of fuel from the built-in hopper to the combustion chamber, ensuring continuous heat generation in the sauna.

Pellets as a fuel for sauna stoves combine ecological, economic, and practical advantages – they are easy to store, convenient to use, and environmentally safe.

4. TRANSPORT AND STORAGE OF THE PELLET SAUNA STOVE

The pellet stove should be transported in its original factory packaging, protected against mechanical damage. The stove must be transported in a vertical position, avoiding tipping, impacts, and vibrations that could damage structural components or internal installations. During transport, it is recommended to use appropriate securing straps or other protective measures to prevent the stove from moving inside the vehicle.
After delivery to the sauna location, the stove should be stored in a dry place and protected from direct contact with water until installation.
Before starting the device, check that all components are intact, that the flue pipes are properly secured, and that the pellet hopper and water container are clean and ready for operation.
It is also recommended that during the first start-up the sauna is properly ventilated to ensure that any residual moisture remains at a minimal level during the initial operation of the stove.

5. STOVE INSTALLATION

5.1. Sauna Requirements

Before installing the stove, make sure that the sauna room meets the required technical and safety conditions. The sauna should have a volume of 6 to 16 m^3, ensuring proper air circulation and comfortable use.
The walls and floor should be made of materials resistant to high temperatures and humidity. The room must also provide access to electrical wiring in accordance with the installation requirements of the stove.
Adequate ventilation and access to the flue gas outlet must also be ensured.

5.2. Foundation

The stove must be installed on a surface with adequate load-bearing capacity. In particular, the strength of the floor should be checked if the stove is to be placed on a wooden floor. The weight of the stove is specified in section 3.4. If the existing floor does not meet this requirement, appropriate measures should be taken (e.g., a load-distributing plate).

Concrete base

The stove may be placed directly on a concrete floor with a minimum thickness of 50 mm.

5.3. Connection of the Stove to the Chimney

The stove must be connected to a chimney flue with a diameter of 80 mm. The flue pipe should be tightly secured, without bends that could obstruct the removal of exhaust gases, and directed outside the sauna in accordance with applicable building and fire safety regulations.
The connection must be checked for tightness before the first start-up of the stove.

5.4. Safe Distances

During the installation of the stove, safety clearances must be taken into account. Ignoring this recommendation may result in a risk of fire. Additional information can be obtained from local fire safety authorities.
Safe distances refer to the minimum clearances between the stove and surfaces made of flammable materials.

Structure	Safety clearance
Top surface	1 350 mm
Front surface	500 mm
Side surface	250 mm
Rear surface	250 mm

5.5. Stove Installation in the Sauna

The pellet stove does not require an external heating system. Installation is limited to placing the device in the sauna room and ensuring proper exhaust gas discharge and air supply (air intake outlet Ø 60 mm).
Before starting the stove, place the recommended amount of stones (35–40 kg) in the stove and position it on a stable, level surface, maintaining the minimum distances from the sauna walls and wooden elements. In the case of control via a dedicated interface or an external wireless thermostat, the correctness of the connections and signal availability should be verified.
Proper installation of the stove in the sauna ensures safe and efficient production of heat and steam, as well as long-term and reliable operation of the device.

5.6. Connection of the Stove to the Electrical System

The stove requires a 220 V power supply. The electrical installation must be carried out in accordance with safety standards, using cables resistant to high temperatures and humidity.

6. OPERATION AND USE

6.1. Initial Start-Up and Preliminary Heating (Instructions for the Installer)

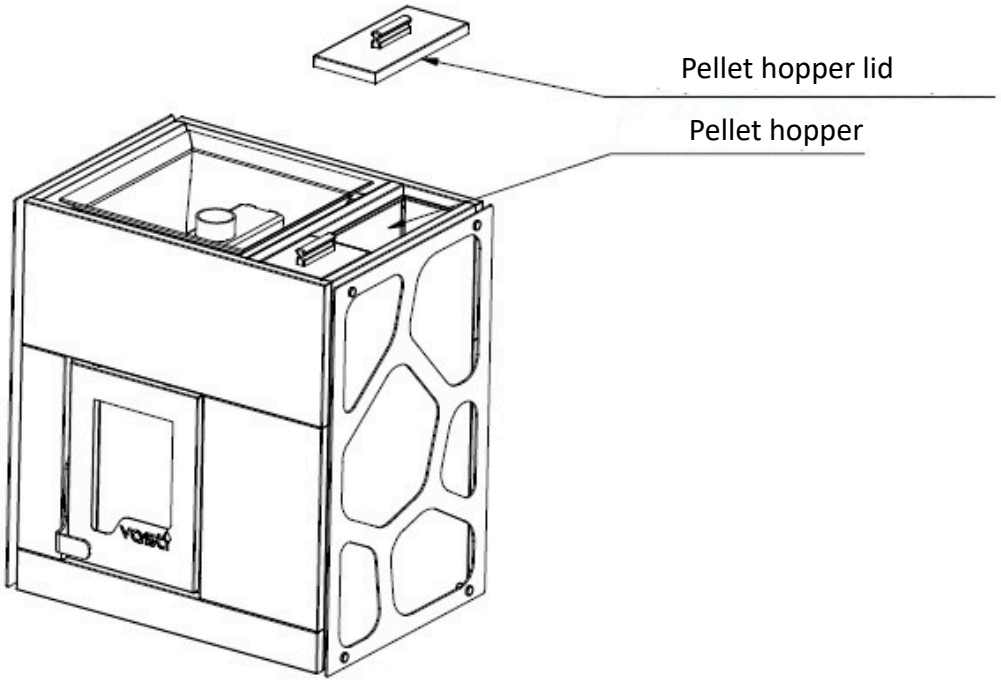
Before the first start-up of the stove, it is recommended that an initial start-up procedure be carried out by a qualified installer. This procedure includes checking: the correct installation of the stove, the tightness of the chimney flue, the stability of the stove's positioning, the condition of the water container and the pellet hopper, as well as the proper connection of the electrical system and the operation of the control system.
Before using the stove and placing the stones, the stove must be properly heated to remove any residues of protective substances. All protective films and labels should be removed beforehand.
The preliminary heating should be carried out on a non-flammable surface, preferably outdoors, due to the emission of harmful substances contained in the paint and protective lubricants.

6.2. Height Adjustment

The legs on which the stove stands are adjustable and can be used to level the stove or adjust its height. A minimum clearance of 25 mm must be maintained between the stove and the floor. Use a spirit level to ensure that the stove has been installed correctly.

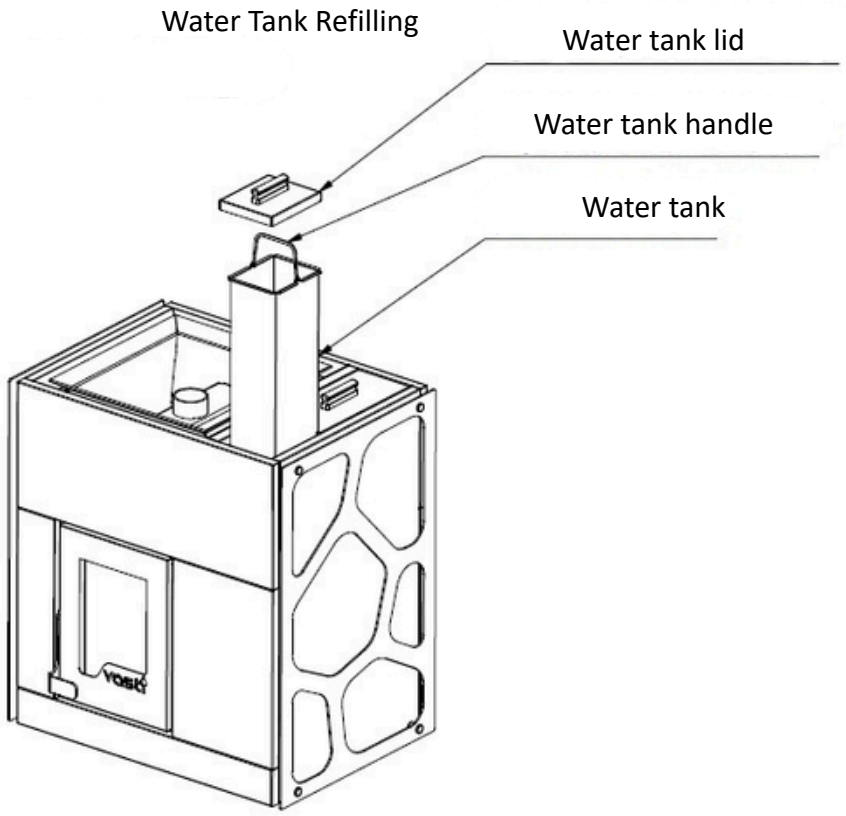
6.3. Refilling the Pellet Hopper

Refilling the pellet hopper



1. Lift the pellet hopper lid using the wooden handle.
2. Fill the pellet hopper with an appropriate amount of pellets so that the lid can be closed.
3. Close the pellet hopper lid, making sure it is properly positioned.

6.4. Refilling the Water Tank



1. Lift the water tank lid using the wooden handle.
2. Pull out the water tank using the appropriate handle.
3. Fill the tank with water.
4. Replace the water tank lid, making sure it is properly positioned.

6.5. Ignition and Conditions for Safe Operation

The stove is started using the control interface. Only wood pellets with a moisture content of ≤10% and a diameter of 6–8 mm, as well as suitable stones (see section 7.6), should be used.

During operation, the temperature in the sauna should be monitored using the thermostat. While the stove is operating, the minimum safety distances from flammable materials must be maintained (see section 6.4).

6.6. Stove Cleaning

Regular cleaning of the stove is essential for safe and efficient operation. Ash should be removed from the combustion chamber, any remaining pellets should be cleared out, and the condition of the water container should be checked.

All surfaces of the stove should be kept clean, while avoiding moisture in electrical components and flue gas ducts.

6.7. Shutting Down and Turning Off the Stove

After finishing the sauna session, the stove should be turned off using the control interface. The pellet feeding system will stop, and the stove should be left to cool down completely. During the shutdown process, it is strictly forbidden to pour water into the hot combustion chamber or attempt to accelerate the cooling process.
After the stove has cooled down, the electrical power supply should be disconnected, and the water level in the container as well as the amount of pellets in the hopper should be checked. The water tank and pellet hopper should be emptied or properly secured if the device will not be used for a longer period. Following these steps ensures user safety, protects the device from damage, and guarantees long-term, reliable operation of the stove.

6.8. Suitable Stones for the Stove

Only stones intended for sauna stoves should be used. Before use, they should be rinsed with water. The stones should be placed loosely to ensure free air circulation, with larger stones placed at the bottom of the chamber. They must not block the outlet openings or extend above the upper edge of the stove. The amount of stones should comply with the technical specifications of the device.
The use of materials not intended for sauna stoves or stones with regular shapes is strictly prohibited.

6.9. Procedure in Case of Problems with the Flue Gas Pipe

If smoke or a decrease in stove performance is observed, the flue pipe should be checked for possible blockages or contamination. The pipe should be cleaned, and it should be ensured that the pellets fed into the combustion chamber meet the recommended parameters (moisture content ≤10%, pellet diameter 6–8 mm).
If in doubt, contact an authorized service center.

6.10. Abnormal Operating Conditions of the Stove

Abnormal conditions include: failure of pellet ignition, improper combustion, excessive smoke, water leakage from the container, or problems with the thermostat.
If any irregularities occur, the operation of the stove must be stopped immediately, and the condition of the device should be checked or an authorized service technician should be contacted.

7. HAŁAS

During operation, the stove generates minimal noise associated with pellet feeding and the operation of the fan. The noise level does not exceed standard indoor noise levels and does not pose any risk to users.

8. DISPOSAL OF THE STOVE

If it becomes necessary to dispose of the stove, it should be done in accordance with the applicable regulations regarding the disposal of electrical and metal equipment. The stove should be emptied of pellets and water, disconnected from the power supply, and its metal and electronic components should be delivered to appropriate recycling or disposal facilities in accordance with local regulations.

PLEASE READ THIS MANUAL, FOLLOW ALL SAFETY RULES AND WARNING NOTICES, AND USE THE EQUIPMENT PROPERLY IN ACCORDANCE WITH ITS INTENDED PURPOSE. OTHERWISE, THERE IS A RISK OF ACCIDENT, PROPERTY DAMAGE, AND/OR PERSONAL INJURY. THIS MANUAL SHOULD BE KEPT FOR FUTURE REFERENCE.

9. WARRANTY TERMS AND CONDITIONS

1. Vasti, with its registered office at Pustków 385B, 39-205 Pustków, entered into the National Court Register (KRS) by the District Court in Rzeszów, 12th Commercial Division of the National Court Register, under number 0000836700, NIP: 8722426675, REGON: 385169634, hereinafter referred to as the "Guarantor", grants a warranty for the pellet sauna stove, provided that it is used in accordance with the product manual.

2. The warranty is granted for a period of 24 months and covers the main components of the stove, such as the housing and the water and stone container. Consumable parts are not covered by the warranty.
Additionally:

- Igniter – 12-month warranty.

The warranty period begins on the date of sale/purchase of the Device, which always corresponds to the date of issuance of the receipt or invoice for the Device covered by the warranty.

4. The warranty provides free repair of a reported defect of the Device, including material defects or manufacturing defects arising solely from causes attributable to the Guarantor that result in the technical malfunction of the Device, provided that the claimant presents the original warranty card and proof of purchase of the Device.

5. During the warranty period, the time required to repair a defect of the Device within the scope of the Guarantor's responsibility shall not exceed 14 business days from the moment the claimed Device is delivered to the Guarantor's registered office.
In justified cases, the repair period may be extended, particularly in situations requiring the delivery of spare parts, obtaining the opinion of a component manufacturer regarding the cause of the damage, or obtaining an assessment from independent institutions.

6. The method of removing defects during the warranty period shall be determined each time by the Guarantor. All parts and materials replaced during warranty repairs become the property of the Guarantor.

7. The removal of defects not covered by the warranty shall be carried out on a fully paid basis.
Furthermore, in the case of an unjustified request for warranty service or the submission of an unfounded warranty claim, the person submitting the claim will be charged for the costs incurred as a result.

8. Defects revealed during the warranty period must be reported to the Guarantor within a maximum of 7 days from the date they are discovered, via the email address serwis@vasti.pl or through the contact form available on the Guarantor's website.
After the expiry of the above-mentioned period, the Guarantor may refuse to repair the defect.

9. The warranty does not include the right to claim compensation for loss of profits resulting from defects of the Device. The Guarantor shall not be liable for damage to property or personal injury resulting from defects of the product.

10. The warranty does not cover:

- defects resulting from failure to comply with the manufacturer's requirements regarding the maintenance of the Device;
- damage occurring during transportation of the Device;
- defects resulting from the lack of proper grounding of the Device;
- damage caused by improper electrical power supply, as well as damage resulting from power surges and voltage drops in the electrical grid;
- damage caused by improper, faulty, or defective electrical installation;

- damage resulting from incomplete filling of the instantaneous water heater with liquid;
- damage resulting from failure to use a mesh filter, safety valve, or an additional circulation pump in the central heating system;
- damage caused by pests, rodents, natural forces, or third parties;
- defects resulting from unauthorized repairs, modifications, or structural alterations made by the user.

Waste Electrical and Electronic Equipment (WEEE)

This product must not be disposed of as household waste. By ensuring proper disposal, you help protect the environment. For more detailed information regarding the recycling of this product, please contact your waste disposal service provider or the store where the product was purchased.

10. WARRANTY CARD

Warranty and Post-Warranty Repairs

Date:	Service stamp and legible signature of the technician:	Type of service visit / report and number

Manufacturer:

Maczka Group Sp.K.
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We reserve the right to correct typographical errors and mistakes, as well as to introduce design changes to the pellet sauna stove without prior notice.