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ALEKO NTSA45

ALEKO TOULE NTSA45 Sauna Spa Heater Stove User Manual

Model: NTSA45 | Brand: ALEKO TOULE

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your ALEKO TOULE NTSA45 Sauna Spa Heater Stove. This ETL certified wet and dry electric sauna heater is designed for reliability and efficiency in small to medium-sized sauna rooms. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: ALEKO TOULE NTSA45 Sauna Heater. This image shows the complete sauna heater unit, highlighting its stainless steel construction and compact design.

2. SAFETY INFORMATION

Your safety is paramount. Adhere to all warnings and instructions to prevent electric shock, fire, or injury.

- **Electrical Installation:** All electrical connections must be performed by a qualified, licensed electrician in accordance with national and local electrical codes. Incorrect wiring can lead to severe injury or fire.
- **Water and Heat:** This heater is designed for both wet and dry sauna use. However, avoid pouring excessive water directly onto the heating elements. Only use water on the sauna stones.
- **Hot Surfaces:** The heater and sauna stones become extremely hot during operation. Avoid direct contact to prevent burns. Install a protective wooden guard if necessary.
- **Ventilation:** Ensure adequate ventilation in the sauna room as specified by sauna construction guidelines.

- **Flammable Materials:** Keep all flammable materials away from the heater. Do not dry clothes or other items on the heater.
- **Children and Pets:** Keep children and pets away from the sauna heater during operation.



Figure 2: Sauna Heater with Optional Wooden Guard. This image illustrates the heater installed within a sauna, demonstrating how a wooden guard can be used for safety to prevent accidental contact with hot surfaces.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged:

- ALEKO TOULE NTSA45 Sauna Heater Unit
- NTS-100 Digital Wall-Mounted Controller
- Temperature Sensor

- Mounting Hardware (screws, brackets)
- User Manual (this document)

Note: Sauna stones are typically sold separately and are not included with the heater unit.

4. SPECIFICATIONS

Feature	Specification
Model Number	NTSA45
Power Output	4.5 kW
Voltage	220-240 Volts
Phase Wiring	2 Phase
Frequency	60Hz
Product Dimensions	29 x 19 x 13 inches (L x W x H)
Item Weight	27 pounds
Certifications	ETL, CE
Controller Type	NTS-100 Digital Wall Controller

5. SETUP AND INSTALLATION

Proper installation is crucial for safety and performance. It is highly recommended that a qualified electrician handles the electrical wiring.

5.1 Choosing a Location

Install the heater on a non-combustible wall surface within the sauna room. Ensure sufficient clearance from walls and benches as per local building codes and the heater's specific requirements. The heater should be positioned to allow for even heat distribution.

5.2 Mounting the Heater

1. Secure the mounting bracket to the sauna wall using appropriate fasteners.
2. Carefully lift the heater unit and hang it onto the mounted bracket, ensuring it is stable and level.



Figure 3: Sauna Heater Mounted. This image displays the heater securely mounted on a sauna wall, ready for stone placement and electrical connection.

5.3 Electrical Connection

WARNING: This step must be performed by a licensed electrician.

- Connect the heater to a dedicated 220-240V, 2-phase, 60Hz electrical circuit with appropriate amperage and circuit breaker protection.
- Follow the wiring diagram provided with the heater and controller for correct connections.
- Ensure all connections are tight and insulated.

5.4 Placing Sauna Stones

Arrange sauna stones (not included) in the stone compartment of the heater. Ensure good air circulation between the stones. Do not pack them too tightly. Use only genuine sauna stones designed for electric heaters.



Figure 4: Top View of Heater Stone Compartment. This image shows the internal structure of the heater where sauna stones are placed, emphasizing the heating elements and grate.



Figure 5: Close-up of Heater Base and Stone Tray. This detailed view highlights the design of the stone tray, where sauna rocks are placed, ensuring proper heat transfer and water drainage.

5.5 Installing the Digital Controller (NTS-100)

Mount the NTS-100 digital controller on an exterior wall outside the sauna room, at a convenient height. Connect the controller to the heater and temperature sensor according to the wiring diagram. The controller allows for easy temperature and time adjustments.

6. OPERATING INSTRUCTIONS

The NTS-100 digital controller provides intuitive control over your sauna heater.

6.1 Initial Start-Up

1. After installation, turn on the main power supply to the sauna heater.
2. The digital controller display will illuminate.

3. For the first use, operate the heater for 30-60 minutes without water to burn off any manufacturing residues. Ensure good ventilation during this period.

6.2 Using the NTS-100 Digital Controller

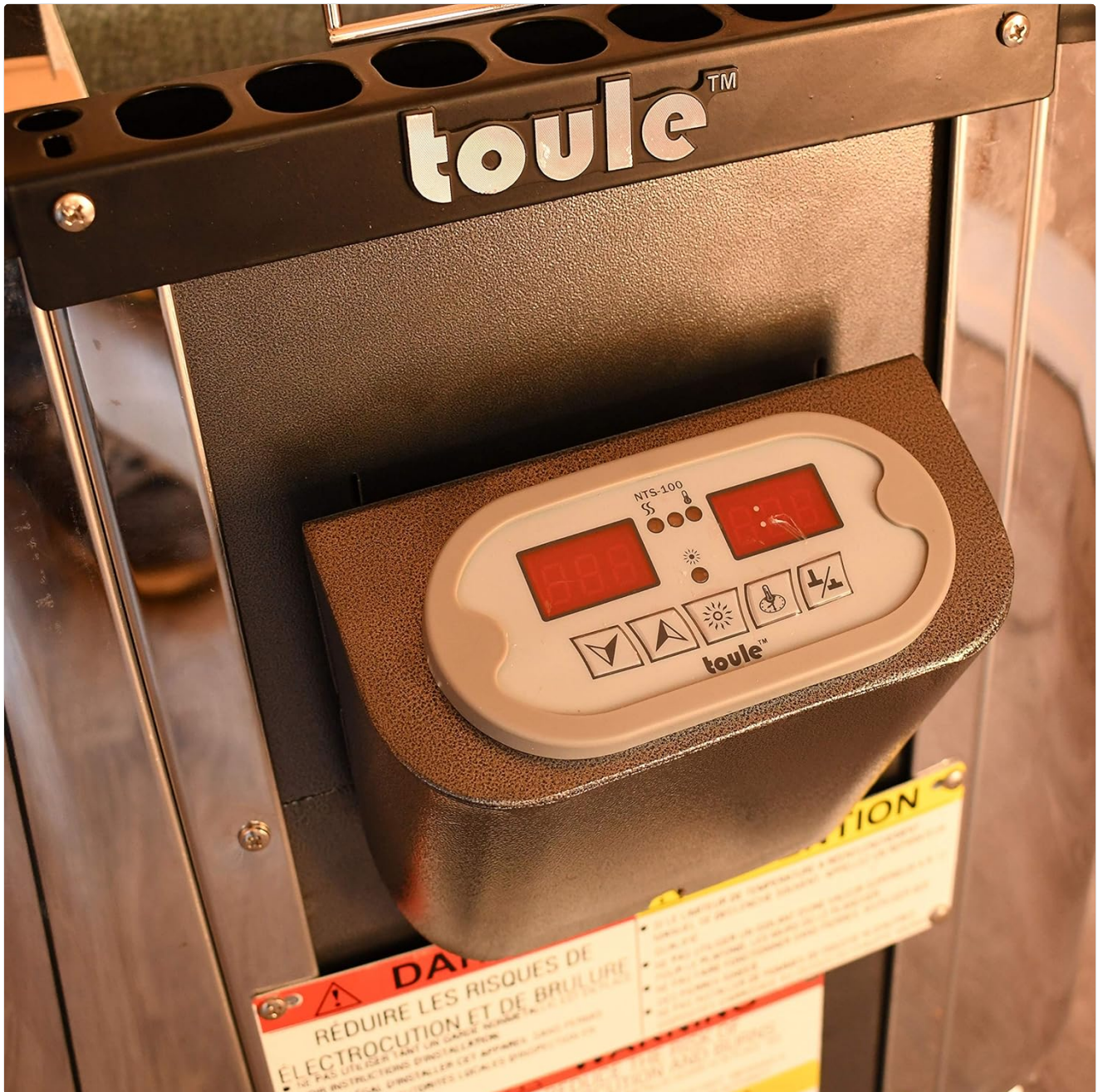


Figure 6: NTS-100 Digital Controller. This close-up shows the display and buttons for setting temperature and timer functions.

- **Power On/Off:** Press the power button to activate or deactivate the heater.
- **Temperature Setting:** Use the up/down arrows to adjust the desired sauna temperature. The display will show the set temperature and the current sauna temperature.
- **Timer Setting:** Press the timer button to set the operating duration. The heater will automatically shut off after the set time.
- **Pre-set Time:** Some controllers allow for a delayed start. Consult the controller's specific instructions for this feature.

6.3 Wet vs. Dry Sauna Use

- **Dry Sauna:** Operate the heater without pouring water on the stones. This provides a dry heat experience.
- **Wet Sauna:** For a wet sauna experience, carefully ladle small amounts of water onto the hot sauna stones. This creates steam and increases humidity. Do not pour large quantities of water at once.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your sauna heater.

7.1 Cleaning the Heater

- Ensure the heater is completely cool and disconnected from power before cleaning.
- Wipe the exterior stainless steel surfaces with a damp cloth. Do not use abrasive cleaners or solvents.
- Remove any debris from the stone compartment.

7.2 Sauna Stone Inspection and Replacement

- Periodically inspect the sauna stones for signs of crumbling or deterioration. Over time, stones can break down due to repeated heating and cooling cycles.
- Replace any broken or worn-out stones to maintain optimal heat transfer and prevent damage to the heating elements.
- Rearrange stones annually to ensure good air circulation.

8. TROUBLESHOOTING

If you encounter issues with your sauna heater, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Heater does not turn on.	No power supply; circuit breaker tripped; faulty wiring; controller issue.	Check main power supply and circuit breaker. Verify controller connections. If issues persist, contact a licensed electrician.
Heater turns on but does not heat.	Faulty heating element; incorrect temperature setting; sensor issue.	Ensure desired temperature is set higher than current room temperature. Check sensor connection. If elements are faulty, professional repair is needed.
Sauna not reaching desired temperature.	Insufficient heating time; poor insulation; incorrect stone placement; undersized heater for room.	Allow more time for heating. Check sauna room insulation. Rearrange stones for better airflow. Ensure heater power matches sauna volume.
Controller display is blank or erratic.	Power issue to controller; loose connection; controller malfunction.	Check power to the controller. Verify cable connections. If malfunction persists, contact support.

For complex electrical issues or internal component failures, always consult a qualified technician or the manufacturer's support.

9. WARRANTY AND SUPPORT

Your ALEKO TOULE NTSA45 Sauna Heater is backed by a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions. For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact ALEKO customer support. Keep your purchase receipt as proof of purchase for warranty claims.

Contact Information: Refer to the ALEKO official website or your purchase documentation for the most current customer support contact details.