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## Zorn 770099

# ZORN Z 32 LNE Thermoelectric Cool & Heat Box User Manual

Model: 770099

## 1. INTRODUCTION

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Thank you for choosing the ZORN Z 32 LNE Thermoelectric Cool & Heat Box. This versatile appliance is designed to keep your items cool or warm, offering flexibility for various uses such as camping, travel, shopping, and field service. It features multiple power options for convenience.

This manual provides important information on the safe operation, setup, maintenance, and troubleshooting of your ZORN Z 32 LNE. Please read it thoroughly before first use and keep it for future reference.

## 2. SAFETY INSTRUCTIONS

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To ensure safe operation and prevent damage, please observe the following safety precautions:

- Always connect the appliance to a power source that matches the voltage specified on the rating label.
- Do not immerse the appliance in water or other liquids.
- Ensure proper ventilation around the unit, especially the fan area, to prevent overheating.
- Do not block the ventilation openings.
- Keep the appliance away from direct heat sources and direct sunlight.
- Do not use the appliance if the power cord or plug is damaged.
- Unplug the appliance from the power source before cleaning or maintenance.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not use abrasive cleaners or sharp objects to clean the interior or exterior of the unit.

## 3. PRODUCT FEATURES

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The ZORN Z 32 LNE Cool & Heat Box offers a range of features for optimal performance and convenience:

- **Capacity:** 30 litres (according to DIN ISO EN15502), accommodating 36 x 0.33 L beverage cans, 7 x 1.5 L bottles

(standing height 35 cm), or 1 x 2.0 L bottle (standing height 42 cm).

- **3x Power Connectivity:**
  - 12 Volt (car) connection
  - 230 Volt household socket connection
  - USB-A/-C (5V/3A) connection for external power supply (e.g., power banks).
- **Cooling Performance:** Achieves temperatures up to 17 °C below ambient temperature.
- **Heating Function:** Heats contents up to 60 °C.
- **Adjustable Power:** 230V power consumption is adjustable, including an Eco function for energy saving. Refer to the control panel on the lid for settings.
- **Peltier Cooling System:** Reliable, maintenance-free, environmentally friendly (no coolants), and functions at any angle.
- **Brushless Motor:** Ensures long service life.
- **Internal Fan:** Provides fast and even cooling.
- **Ergonomic Design:** Easy to clean interior, optimal lid seal to reduce condensation, ergonomically shaped carry handle that can be locked, and a removable electric lid.
- **Integrated Storage:** Outer pocket for mobile phone charger or power pack.
- **Cable Lengths:** 12V cable (1.80 m), 230V cable (1.60 m), USB-A/-C cable (60 cm).

## 4. SETUP

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Before first use, please follow these steps:

1. **Unpacking:** Carefully remove the cool box from its packaging. Retain packaging for future storage or transport if needed.
2. **Initial Cleaning:** Wipe the interior and exterior surfaces with a damp cloth and mild detergent. Ensure the unit is completely dry before plugging it in.
3. **Placement:** Place the cool box on a stable, flat surface. Ensure there is adequate space around the ventilation grilles (located on the lid) for proper airflow. Do not place it directly against a wall or in an enclosed space without ventilation.
4. **Power Connection:**
  - **For 230V AC (Household):** Connect the 230V cable to the appropriate port on the cool box and then to a standard household power outlet.
  - **For 12V DC (Car):** Connect the 12V cable to the appropriate port on the cool box and then to your vehicle's 12V cigarette lighter socket.
  - **For USB-A/-C (Power Bank):** Connect the USB-A/-C cable to the cool box and then to a compatible power bank (5V/3A output, minimum 24.0 Ah / 88.80 Wh capacity recommended). The power bank is not included. Utilize the integrated outer pocket for convenient storage of your power bank.



**ENERG** ⚡



**Zorn GmbH**

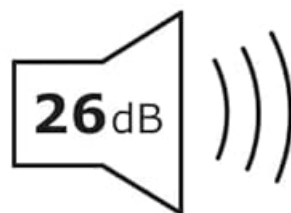
Z32 LNE AC/DC



**75** kWh/annum



**30** L



**A**BCD

Image: The ZORN Z 32 LNE Cool Box showing the various power cables (230V AC, 12V DC, USB-A/C) neatly stored in the lid compartment.

## 5. OPERATING INSTRUCTIONS

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The ZORN Z 32 LNE offers both cooling and heating functions, with flexible power options.

### 5.1. Cooling Function

To cool items, ensure the cool box is connected to a power source (12V, 230V, or USB-A/C). The cooling system will activate automatically. For optimal cooling performance:

- Pre-chill items before placing them in the cool box, especially if using the 12V or USB power source.
- Close the lid securely to maintain the internal temperature. The carry handle can be folded down to lock the lid.
- Avoid opening the lid frequently to prevent warm air from entering.
- When using 230V, you can adjust the power consumption, including an Eco function for energy saving. Refer to the control panel on the lid for settings.



Image: Front view of the ZORN Z 32 LNE Cool Box, highlighting its compact design and integrated handle.

## 5.2. Heating Function

The cool box can also function as a heating box, warming contents up to 60 °C. To activate the heating function, ensure the unit is connected to a 230V power source and select the heating mode on the control panel. The heating function is typically indicated by a specific switch or light on the control panel.

- Only use the heating function with the 230V connection.
- Allow sufficient time for the unit to reach the desired temperature.
- Do not place flammable materials inside the box when in heating mode.

### 5.3. USB Power Bank Usage

The USB-A/C connection allows for extended cooling (ECO mode) for up to 10 hours, independent of mains connection, when paired with a suitable power bank (5V/3A output, min. 24.0 Ah / 88.80 Wh). This is ideal for situations where traditional power outlets are unavailable.



Image: Top view of the ZORN Z 32 LNE Cool Box showing a power bank connected via USB-A/C, demonstrating its portable power capability.



Image: Side view of the ZORN Z 32 LNE Cool Box with a power bank stored in its dedicated side pocket, emphasizing convenience and integrated design.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your ZORN Z 32 LNE Cool & Heat Box.

- **Cleaning:**

- Always unplug the unit before cleaning.
- Wipe the interior and exterior with a soft cloth dampened with mild soap and water.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the surfaces.
- Ensure the unit is completely dry before reconnecting to power.
- The electric lid is removable for easier cleaning of the interior.

- **Ventilation Grilles:** Periodically check and clean the ventilation grilles on the lid to ensure they are free from dust and debris. A small brush or vacuum cleaner can be used. Proper airflow is crucial for efficient cooling/heating.
- **Seal:** Inspect the lid seal regularly for any signs of wear or damage. An optimal seal helps reduce condensation and maintain temperature.
- **Storage:** When not in use for extended periods, clean the unit thoroughly, ensure it is dry, and store it in a cool, dry place away from direct sunlight.

## 7. TROUBLESHOOTING

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If you encounter issues with your ZORN Z 32 LNE, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on.	No power supply; loose connection; damaged cable/plug.	Check power source (outlet, car socket, power bank). Ensure cables are securely connected. Inspect cables for damage. Try a different power source.
Insufficient cooling/heating.	Blocked ventilation; lid not sealed properly; ambient temperature too high/low; items not pre-chilled/warmed.	Clear ventilation grilles. Ensure lid is closed and sealed. Pre-chill/warm items. For cooling, avoid placing hot items inside. For heating, ensure 230V connection is used.
Excessive noise from fan.	Fan obstructed by dust/debris; unit on an uneven surface.	Clean fan area. Place unit on a stable, flat surface.
Condensation inside the unit.	Frequent lid opening; high humidity; lid seal issue.	Minimize lid openings. Ensure lid is properly sealed. Wipe away condensation as needed.

If the problem persists after attempting these solutions, please contact Zorn customer support for further assistance.

## 8. SPECIFICATIONS

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Detailed technical specifications for the ZORN Z 32 LNE Cool & Heat Box:

Feature	Detail
Model Number	770099
Manufacturer	Zorn
Capacity	30 litres

Feature	Detail
Product Dimensions (L x W x H)	39 x 29 x 51.5 cm
Item Weight	4.3 kg
Colour	Grey/White/Orange
Power Source	Wired (12V DC, 230V AC, USB-A/C 5V/3A)
Voltage	12V, 230V, 5V
Cooling Performance	Up to 17 °C below ambient temperature
Heating Performance	Up to 60 °C
Energy Efficiency Class (2021)	E (A - G scale)
Annual Energy Consumption	75 kWh/annum
Noise Level	26 dB
Recommended Uses	Camping, Travel, Shopping, Field Service



Image: Energy efficiency label for the ZORN Z 32 LNE Cool Box, showing an E rating, 75 kWh/annum consumption, 30L capacity, and 26dB noise level. More details can be found at [eprel.ec.europa.eu/qr/620816](http://eprel.ec.europa.eu/qr/620816).



Image: Diagram illustrating the dimensions of the ZORN Z 32 LNE Cool Box: 39cm (length), 29cm (width), and 51.51cm (height).

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact your retailer or the manufacturer, Zorn, directly. Please have your model number (770099) and purchase details ready when contacting support.

Manufacturer: Zorn

Part Number: 770049

