

ELECAENTA UD39-B

ELECAENTA 12 Volt Refrigerator User Manual

Model: UD39-B | Brand: ELECAENTA

INTRODUCTION

Thank you for choosing the ELECAENTA 12 Volt Refrigerator. This 43-quart dual-zone car fridge and portable freezer is designed for versatile use, offering powerful cooling performance from -4°F to 68°F. It supports multiple power supply methods including DC, AC, and solar, with an optional detachable battery for extended portability. This manual provides essential information for safe and efficient operation, setup, maintenance, and troubleshooting.



The ELECAENTA 43qt Dual Zone Car Refrigerator, showcasing its two compartments filled with fruits and beverages, along with a smartphone displaying its control app.

SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this appliance to prevent injury or damage. Keep this manual for future reference.

- Ensure the power source matches the voltage requirements of the refrigerator (12/24V DC, 110-240V AC).
- Do not operate the appliance if the power cord is damaged or if the appliance is malfunctioning.
- Keep ventilation openings clear of obstructions.
- Do not use electrical appliances inside the food storage compartments unless they are of the type recommended by the manufacturer.
- Avoid placing the refrigerator in direct sunlight or near heat sources.

- When using in a vehicle, secure the refrigerator to prevent movement during transit.
- Unplug the appliance before cleaning or performing any maintenance.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

WHAT'S IN THE Box

Upon unpacking, please verify that all the following items are included:

- ELECAENTA 12 Volt Refrigerator (Black)
- AC Adapter
- Car Charger
- Basket
- User Manual (this document)

PRODUCT FEATURES

- **Dual Temperature Zones and Reversible Doors:** Features a refrigerator/freezer combination with two zones (33 quarts and 10 quarts) and individual temperature control from -4°F to 68°F. The reversible door design offers flexible opening options.
- **Multiple Power Supply Methods:** Supports 12/24V DC, 110-240V AC, solar panel power supply, and optional detachable battery power (sold separately).
- **Fast Cooling, Energy Saving, and Battery Protection:** Offers Max mode for rapid cooling and Eco mode for energy efficiency. Includes a temperature memory function and a three-level battery protection system to prevent vehicle battery drain.
- **Shockproof and Durable Design:** Engineered to withstand rocky roads, shocks, and vibrations, capable of operating smoothly even when tilted up to a 45° angle for short periods. Features user-friendly handles, heavy-duty pull rods, and durable wheels for easy portability.
- **High Efficiency and Low Noise:** Utilizes advanced 3D refrigeration technology and a powerful compressor for fast cooling. Operates at approximately 45 decibels, ensuring quiet performance indoors or outdoors.
- **Touch Control:** Easy-to-use touch panel for setting temperatures and modes.
- **LED Light:** Internal LED lighting for visibility.
- **Drainage Hole:** Convenient drainage for easy cleaning.

Always Have Fun Anytime, Anywhere

Great for road trips, camping, travel and other outdoor activities



Dual Zone



Large Capacity



Reversible Doors



Battery Powered



Battery Protection



Fast Cooling



Shockproof And Durable



LCD Control



Energy Saving



USB Output



An infographic highlighting key features such as dual zone, large capacity, reversible doors, battery powered, battery protection, fast cooling, shockproof and durable design, LCD control, energy saving, and USB output.

43 QUARTS LARGE CAPACITY

33 QUARTS AND 10 QUARTS TWO ZONES,
CARRY ALL YOUR NEEDS



A visual representation of the 43-quart capacity, showing 33 quarts and 10 quarts zones, capable of holding 48 cans of cola, 46 bottles of water, or 25 bottles of wine.

≤ 45 dB Low Noise

Meet your needs for use in a quiet environment



An illustration demonstrating the low noise level of the car refrigerator, rated at ≤ 45 dB, comparable to a whisper or leaves rustling.

SETUP

1. Unpacking and Initial Placement

Carefully remove the refrigerator from its packaging. Place it on a flat, stable surface, ensuring adequate ventilation around all sides. Allow the unit to stand upright for at least 6 hours before connecting to power, especially if it was transported horizontally.

2. Connecting to Power

The refrigerator supports multiple power inputs:

- **AC Power (Home Use):** Use the provided AC adapter. Connect the adapter to the refrigerator's AC input port, then plug the adapter into a standard 110-240V AC wall outlet.
- **DC Power (Car/Vehicle Use):** Use the provided car charger. Connect the car charger to the refrigerator's DC input port, then plug the other end into your vehicle's 12V or 24V cigarette lighter socket.

4 CHARGING METHODS

NO NEED TO WORRY ABOUT
RUNNING OUT OF BATTERY



Battery Powered
(Sold separately)

AC Charging



DC Charging



Solar Charging
(Battery installation required)



Visual representation of the four charging methods: Battery Powered (sold separately), AC Charging, DC Charging, and Solar Charging (battery installation required).

3. Optional Detachable Battery Installation

If you have purchased the detachable battery (sold separately), insert it into the designated battery compartment on the side of the refrigerator until it clicks into place. Ensure it is securely connected for portable operation.

SUPPORT BATTERY POWER SUPPLY

YOU CAN ENJOY YOUR TRIP WITHOUT WORRYING ABOUT THE POWER



* Note: Detachable Battery Sold Separately

A hand demonstrating the insertion of the detachable battery into the ELECAENTA portable refrigerator, highlighting the battery power supply feature.

4. Reversible Door Setup

The refrigerator features reversible doors for enhanced flexibility. Refer to the detailed instructions in the separate "Reversible Door Installation Guide" (if provided) or contact customer support for assistance with changing the door hinge direction.



A visual demonstrating the user-friendly design of the refrigerator, including its reversible doors and pull handle, allowing for easy adaptation to various scenarios.

OPERATING INSTRUCTIONS

1. Powering On/Off

Press and hold the power button (●) on the control panel for 3 seconds to turn the refrigerator on or off. The display will illuminate when the unit is powered on.

TOUCH CONTROL - EASY TO USE

YOU CAN EASILY SET THE TEMPERATURE OF EACH COMPARTMENT ACCORDING TO YOUR NEEDS



A close-up view of the touch control panel, showing a finger adjusting the temperature, indicating ease of use.

2. Temperature Adjustment (Dual Zone)

The ELECAENTA refrigerator features dual temperature zones. Use the '+' and '-' buttons on the control panel to adjust the desired temperature for each compartment. The display will show the current temperature and allow you to set the target temperature. The temperature range is -4°F to 68°F (-20°C to 20°C).

DUAL TEMPERATURE ZONES & DUAL CONTROL

REFRIGERATOR/ FREEZER COMBINATION,
-20°C (-4°F) TO 20°C (68°F)
POWERFUL COOLING PERFORMANCE



FRUITS

(5~8°C / 41~46°F)



VEGETABLE

(3~10°C / 37~50°F)



DRINKS

(5°C / 41°F)



MEAT

(-18°C / 0°F)



DELICATESSEN

(4°C / 39°F)



ICE CREAM

(-10°C / 14°F)

A top-down view of the dual temperature zones, one filled with meat and the other with beverages, illustrating the separate temperature control for each compartment.



A diagram illustrating four different configuration options for the dual zones: both as refrigerator, both as freezer, or one of each, providing flexibility for various cooling needs.

3. Mode Selection (Max/Eco)

The refrigerator offers two operating modes:

- **Max Mode:** Provides rapid cooling for quick temperature reduction.
- **Eco Mode:** Optimizes energy consumption for extended battery life and efficiency.

Press the 'ECO' button on the control panel to switch between Max and Eco modes.

FAST COOLING FUNCTION

80°F TO 32°F IN JUST 20 MINUTES



A visual demonstrating the fast cooling capability of the refrigerator, showing it can cool from 80°F to 32°F in just 20 minutes, with a temperature range of -20°C to 20°C.

4. Battery Protection System

The unit features a three-level battery protection system to prevent your car battery from running out of power. You can select the protection level (L - Low, M - Medium, H - High) based on your needs. The factory default is H mode. To adjust the battery protection level:

1. Press the power button for 3 seconds until the screen flashes.
2. Press the power button again to cycle through the protection modes (L, M, H).
3. Release the button when your desired mode is displayed. The setting will save automatically.

VOLTAGE PROTECTION

Support 3 models: H (High), M (Medium), L (Low), factory default H mode

INPUT MODEL	DC 12V		DC 24V	
	CUT OUT	CUT IN	CUT OUT	CUT IN
L	8.5V	10.9V	21.3V	22.7V
M	10.1V	11.4V	22.3V	23.7V
H	11.1V	12.4V	24.3V	25.7V

* Car power: H model, battery power: M or L model.

* Press power button for 3 seconds until screen flashes, then press power button again to select protection model.

* The voltage is theoretical value, there may be a deviation in different sceneries.

A table detailing the cut-out and cut-in voltages for each battery protection level (L, M, H) for both 12V and 24V DC inputs. Note: The voltage values are theoretical and may vary slightly in different scenarios.

5. Smartphone App Control

The ELECAENTA refrigerator can be controlled via a smartphone app. Download the official ELECAENTA app from your device's app store. Follow the in-app instructions to pair your refrigerator and control settings remotely.

CONTROL YOUR REFRIGERATOR AS YOU WISH



A smartphone displaying the ELECAENTA app interface, which allows users to monitor current temperature, adjust settings, and control the refrigerator remotely.

MAINTENANCE

1. Cleaning

To clean the refrigerator, first unplug it from all power sources. Use a soft cloth dampened with mild detergent and water to wipe down the interior and exterior surfaces. Do not use abrasive cleaners or harsh chemicals. Ensure the unit is completely dry before reconnecting power.

2. Drainage

The refrigerator is equipped with a drainage hole for easy water removal, especially after defrosting or cleaning. Open the drainage plug located at the bottom of the unit to allow water to drain out. Close the plug securely after drainage.



A diagram highlighting the drainage hole at the bottom of the refrigerator, indicating its function for easy water removal.

3. Storage

When storing the refrigerator for extended periods, ensure it is clean, dry, and unplugged. It is recommended to leave the lids slightly ajar to prevent odors and mold growth. Store in a cool, dry place away from direct sunlight.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Refrigerator not turning on.	No power supply; loose connection; blown fuse in vehicle.	Check power cable connections. Ensure power outlet is functional. Check vehicle's fuse box.
Not cooling sufficiently.	Temperature setting too high; poor ventilation; overloaded; door not sealed properly.	Lower temperature setting. Ensure adequate space around the unit for ventilation. Do not overfill. Check door seal for obstructions.
Display error code.	Internal malfunction; sensor issue.	Refer to the specific error code in the full user manual (if available) or contact customer support. Try restarting the unit.
Excessive noise.	Unit not level; fan obstruction.	Ensure the refrigerator is on a flat, stable surface. Check for any debris obstructing the fan.

SPECIFICATIONS

Feature	Detail
Brand Name	ELECAENTA
Model Info	UD39-B

Feature	Detail
Item Weight	39.6 pounds (18 Kilograms)
Product Dimensions	18.46 x 16.02 x 27.17 inches (27"D x 15.5"W x 18"H)
Capacity	39 Liters (43 Quarts)
Refrigerator Fresh Food Capacity	40.6 Liters
Freezer Capacity	40.6 Liters
Annual Energy Consumption	60 Watts
Installation Type	Freestanding
Special Features	Anti-Shake, Large Capacity, Portable, Rechargeable Battery (Optional), Touch Control
Color	Black
Voltage	12/24 Volts (DC), 110-240 Volts (AC)
Defrost System	Manual
Door Hinges	Reversible
Number Of Doors	2

PRODUCT OVERVIEW VIDEO

Your browser does not support the video tag.

An official product video from ELECAENTA showcasing the features and usage scenarios of the 12 Volt Refrigerator Car Fridge Cooler. This video provides a visual overview of the product's design, capacity, and portability for camping and travel.

WARRANTY AND SUPPORT

ELECAENTA products come with a standard manufacturer's warranty. For specific warranty details, registration, or to obtain technical support, please visit the official ELECAENTA website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

You can find more information and contact details on the official ELECAENTA store page: [ELECAENTA Store](#)

Related Documents



[ELECAENTA 30W Foldable Solar Charger User Manual](#)

User manual for the ELECAENTA 30W foldable solar charger, detailing its features, operation, specifications, and warranty. This portable solar panel provides clean energy for electronic devices during outdoor activities.