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Garvee MC40B

Garvee 40L Portable Car Refrigerator with Spot Cooler Function

Model: MC40B | Brand: Garvee

Introduction

Thank you for purchasing the Garvee 40L Portable Car Refrigerator. This appliance is designed for versatile use, offering both refrigeration and freezing capabilities, along with a unique spot cooler function. It is suitable for various applications, including car travel, camping, outdoor activities, and home use. Please read this manual thoroughly before operation to ensure safe and efficient use of the product.

Safety Information

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury.

- Ensure the power supply matches the voltage requirements of the refrigerator (DC 12V/24V or AC 100V).
- Do not immerse the appliance in water or expose it to excessive moisture.
- Keep ventilation openings clear of obstructions to prevent overheating.
- Avoid touching cold surfaces with wet hands to prevent frostbite.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- When using in a vehicle, ensure the refrigerator is securely fastened to prevent movement during transit.
- The lid is heavy; exercise caution when opening and closing to avoid pinching fingers.

Package Contents

Verify that all items are present upon unpacking:

- Garvee 40L Portable Car Refrigerator (Main Unit)
- DC Power Cord
- AC Adapter
- AC Power Cord
- Battery Pack (Detachable, 6000mAh)
- Japanese Instruction Manual

Note: The included AC power cord cannot be used to charge the battery directly. A separate battery charger may be required.



Image: Package contents and dimensions of the Garvee 40L Portable Car Refrigerator.

Setup

1. **Unpacking:** Carefully remove the refrigerator and all accessories from the packaging. Retain packaging for future transport or storage.
2. **Placement:** Place the refrigerator on a stable, level surface. Ensure adequate ventilation around the unit, especially at the air intake and exhaust vents. Avoid direct sunlight or heat sources.
3. **Power Connection:**
    - **DC (Car Use):** Connect the DC power cord to the refrigerator's DC input and then to your vehicle's cigarette lighter socket (12V/24V).
    - **AC (Home Use):** Connect the AC adapter to the refrigerator's AC input, then plug the AC power cord into the adapter and a standard 100V AC wall outlet.
    - **Battery Pack:** Insert the detachable battery pack into its designated slot on the refrigerator. Ensure it clicks into place securely.

4. **Initial Cleaning:** Before first use, wipe the interior of the refrigerator with a damp cloth and mild detergent. Dry thoroughly.



Image: Demonstrates the 4-way power supply options for the refrigerator.

Operating Instructions

Control Panel Overview



Image: Detailed view of the control panel and its functions.

- **Power Button:** Turns the unit ON/OFF.
- **Temperature Up/Down:** Adjusts the target temperature.
- **Settings Button:** Accesses various settings like ECO/MAX mode and battery protection level.
- **Display:** Shows current temperature and settings.
- **Fan A/Fan B:** Controls the spot cooler fans.
- **Type-C Output:** USB-C port for charging small devices.

Temperature Control and Rapid Freezing

The refrigerator uses advanced compressor technology to achieve rapid cooling and freezing, with a temperature range of -18°C to 20°C.

- Press the Power button to turn on the unit.
- Use the Temperature Up/Down buttons to set your desired temperature.
- In an empty state, the internal temperature can drop from 25°C to -1°C in approximately 30 minutes, and to -18°C in about 50 minutes.



Image: Rapid cooling performance chart.

Power Modes (ECO/MAX)

The refrigerator offers two power modes for efficiency and performance:

- **ECO Mode (30W):** Energy-saving mode for lower power consumption, ideal for extended use.
- **MAX Mode (45W):** High-performance mode for rapid cooling, quickly reaching the desired temperature.
- To switch modes, press the Settings button and navigate to the mode selection.



Image: ECO and MAX power modes.

Spot Cooler Function

This refrigerator features an integrated spot cooler. The flexible ducts allow for 360-degree adjustment of airflow direction, providing a refreshing breeze while keeping your drinks cold.

- To activate the spot cooler, press the Fan A or Fan B buttons on the control panel.
- Adjust the flexible ducts to direct the cool air as needed.



Image: Spot cooler function in action.

Battery Monitor Function

The integrated battery monitor prevents excessive discharge of your vehicle's battery when connected to the DC power supply. It automatically turns the power ON/OFF based on voltage levels.

- You can adjust the battery protection level (Low, Medium, High) via the settings menu to suit your needs.
- Refer to the table below for voltage thresholds:

Battery Protection Level	Low (L)	Medium (M)	High (H)

Battery Protection Level	Low (L)	Medium (M)	High (H)
12V Power Off Voltage	9.6V	10.4V	11.1V
12V Restart Voltage	10.9V	11.7V	12.4V
24V Power Off Voltage	21.3V	22.8V	24.3V
24V Restart Voltage	22.7V	24.2V	25.7V



Image: Battery monitor function and voltage protection levels.

Maintenance

Regular maintenance ensures optimal performance and longevity of your refrigerator.

- **Cleaning:**
  - Always unplug the unit before cleaning.

- Wipe the interior and exterior with a damp cloth and mild detergent. Avoid abrasive cleaners.
- The refrigerator features an H-shaped guide groove and a drain plug at the bottom for easy cleaning and water drainage.

- **Ventilation:** Periodically check and clean the ventilation openings to ensure proper airflow.
- **Storage:** When not in use for extended periods, ensure the unit is clean and dry. Store it in a cool, dry place with the lid slightly ajar to prevent odors.

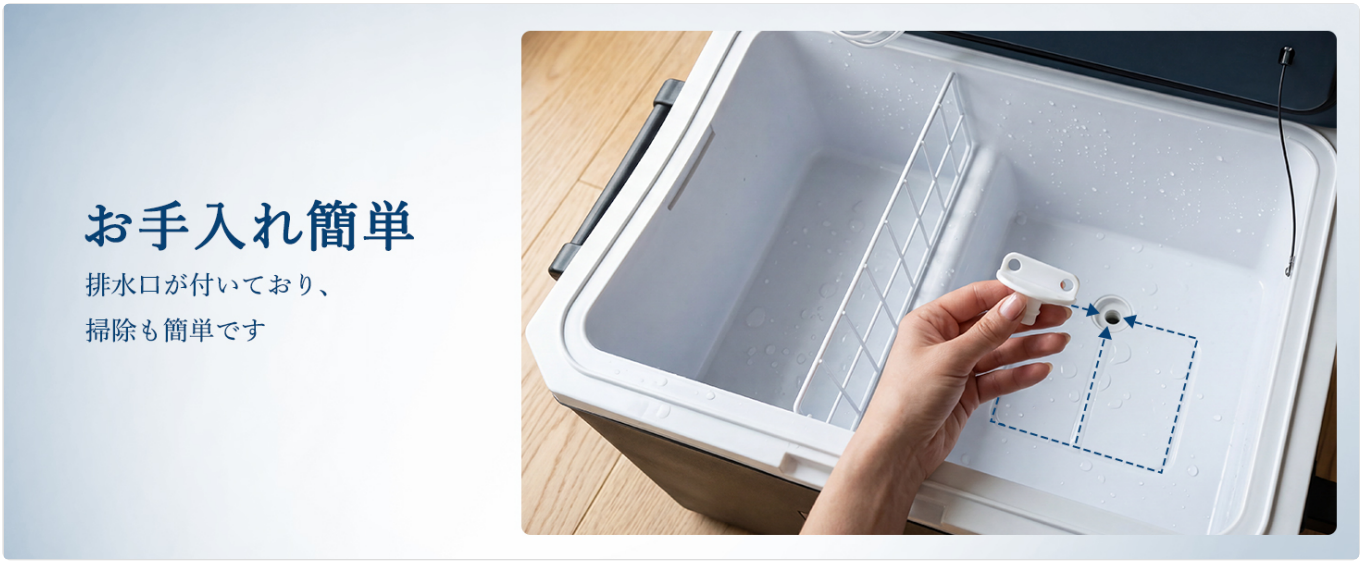


Image: Drain plug for easy cleaning.

Troubleshooting

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

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; loose connection; blown fuse.	Check power cord connection; ensure power source is active; check vehicle's fuse.
Insufficient cooling	Temperature setting too high; blocked ventilation; excessive ambient temperature; door not sealed properly.	Lower temperature setting; clear vents; move to a cooler area; check door seal.
Unusual noise	Unit not level; objects inside rattling; fan obstruction.	Ensure unit is on a flat surface; secure items inside; check for fan obstructions.
Battery not charging	Incorrect power source; faulty battery or charger.	Ensure correct power source is used for charging (not the included AC cord); contact support if battery/charger is suspected faulty.

If the problem persists after trying these solutions, please contact Garvee customer support.

Specifications

Feature	Detail
Product Dimensions (D x W x H)	51 x 78 x 50 cm
Brand	Garvee

Feature	Detail
Capacity	40 Liters
Configuration	Standard Bottom Mount
Color	Black
Number of Doors	1
Defrost System Type	Manual
Voltage	12 Volts (DC)
Door Opening Type	Top Open
Number of Door Shelves	1
Model Number	MC40B
UPC	199809071561
Included Components	Japanese Instruction Manual
Warranty	1 Year
Country of Origin	China
Item Weight	13.5 Kilograms
Annual Energy Consumption	0.08 kWh (per hour, approximate)
Temperature Range	-18°C to 20°C

Warranty and Support

This Garvee product comes with a **1-year warranty** from the date of purchase. The warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

For technical support, warranty claims, or any questions regarding your Garvee 40L Portable Car Refrigerator, please contact Garvee customer service through the retailer where you purchased the product or visit the official Garvee website for contact information.

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