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VEVOR 12 volt refrigerator 50L

VEVOR 53 Qt Portable Car Refrigerator User Manual

Model: **12 volt refrigerator 50L** | Brand: **VEVOR**

1. Introduction

This manual provides essential information for the safe and efficient operation of your VEVOR 53 Qt Portable Car Refrigerator. Please read it thoroughly before first use and retain it for future reference. This portable refrigerator is designed for cooling and freezing items in various environments, including vehicles, RVs, boats, and homes.
It features a 50L (53 Qt) capacity, a cooling range of -4℉ to 68℉ (-20℃ to 20℃), and operates on both 12/24V DC and 110-240V AC power sources. The unit includes a digital display, app control, and battery protection functions.

2. Safety Instructions

- Ensure the power supply voltage matches the refrigerator's requirements.
- Do not operate the refrigerator if the power cord is damaged. Contact qualified service personnel.
- Keep the ventilation openings clear of obstructions to ensure proper airflow and prevent overheating.
- Avoid placing the refrigerator near heat sources or in direct sunlight.
- Do not immerse the refrigerator in water or expose it to heavy rain.
- Always disconnect the power supply before cleaning or performing 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.
- 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.

3. Package Contents

Upon unpacking, please verify that all items are present and undamaged:

- VEVOR Portable Car Refrigerator (53 Qt)

- DC Power Cable (12/24V for car cigarette lighter)
- AC Power Adapter (110-240V for home use)
- User Manual



Image: Included AC and DC power cables for versatile use.

4. Setup

4.1 Unpacking and Placement

1. Carefully remove the refrigerator from its packaging.
2. Place the refrigerator on a firm, level surface. Ensure there is at least 10 cm (4 inches) of space around all sides for proper ventilation.
3. Before connecting to power, allow the unit to stand upright for at least 6 hours if it has been tilted during transport. This allows the compressor oil to settle.

4.2 Power Connection

The refrigerator can be powered by two methods:

- **DC Power (12/24V):** Connect the DC power cable to the refrigerator's DC input port and then to your vehicle's cigarette lighter socket.
- **AC Power (110-240V):** Connect the AC power adapter to the refrigerator's AC input port, then plug the adapter into a standard wall outlet.



Image: The refrigerator can be powered by a 12-24V DC car cigarette lighter or a 120-240V AC home socket. It also features three levels of battery protection (H/M/L).

5. Operating Instructions

5.1 Control Panel Overview



Image: The control panel features a USB charger, temperature adjustment buttons (+/-), a power switch, mode setting, Bluetooth connection indicator, and supports mobile app control.

- **Power Switch:** Press to turn the unit ON or OFF.
- **Temperature Display:** Shows the current internal temperature.
- **Temperature + / - Buttons:** Use to increase or decrease the desired temperature.
- **Mode Setting:** Press to cycle between ECO (energy-saving) and MAX (fast cooling) modes.
- **Bluetooth Connection:** Indicates Bluetooth status for app control.
- **USB Charger:** Provides a convenient port for charging mobile devices.

5.2 Temperature Adjustment

Once powered on, use the **Temperature +** and **Temperature -** buttons to set your desired temperature. The digital display will show the set temperature, then revert to the actual internal temperature.

5.3 Cooling Modes (ECO/MAX)

Press the **Mode Setting** button to switch between:

- **ECO Mode:** For energy-efficient operation, suitable for maintaining temperature over longer periods.
- **MAX Mode:** For rapid cooling, ideal when you need to reach the desired temperature quickly.

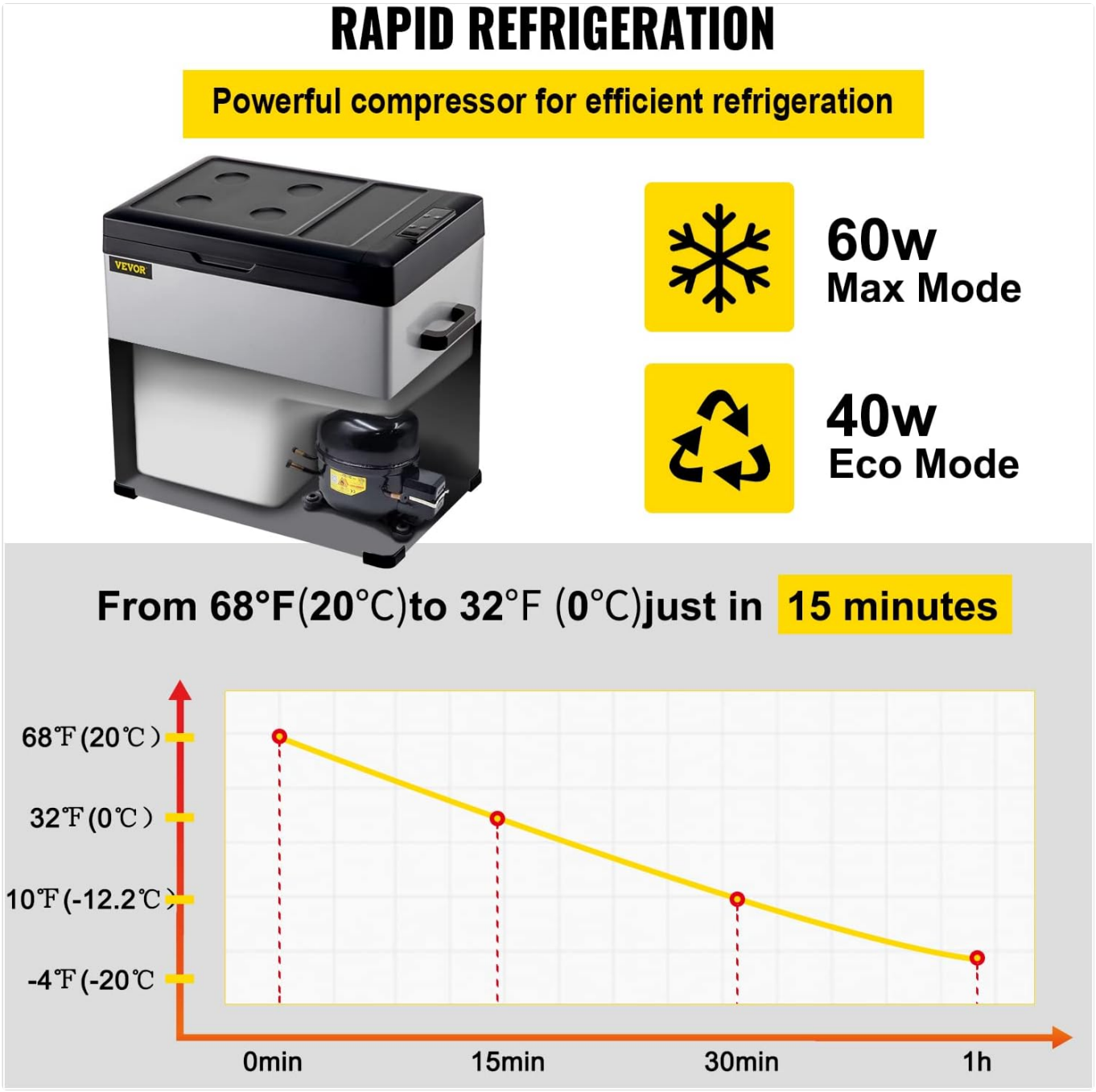


Image: The refrigerator can cool from 68℉ (20℃) to 32℉ (0℃) in approximately 15 minutes using MAX mode (60W), while ECO mode operates at 40W for energy saving.

5.4 Battery Protection

The refrigerator features three levels of battery protection (High, Medium, Low) to prevent your vehicle's battery from being drained. This setting can typically be adjusted via the control panel or the mobile app. Refer to the specific instructions for your model on how to change this setting.

5.5 Mobile App Control

Download the VEVOR app (or specified compatible app) to control your refrigerator remotely via Bluetooth. The app allows you to adjust temperature, change modes, and monitor status from your smartphone.

5.6 Internal LED Light

The built-in LED light illuminates the interior, making it easy to see contents, especially in low-light conditions.

5.7 Drain Hole

A drain hole is provided at the bottom of the unit for easy cleaning and defrosting. Remove the plug to drain any accumulated water.



Image: The spacious interior can accommodate a variety of items, from fresh produce to beverages.

6. Maintenance

6.1 Cleaning

- Always disconnect the power before cleaning.
- Clean the interior and exterior with a damp cloth and mild detergent. Avoid abrasive cleaners or solvents.
- Ensure the drain hole is clear of debris.
- Wipe dry thoroughly before reconnecting power.

6.2 Defrosting

While the unit features a frost-free defrost system, occasional manual defrosting may be necessary if a thick layer of ice builds up. To defrost:

1. Turn off the refrigerator and disconnect it from the power supply.
2. Remove all contents.
3. Open the lid and remove the drain plug to allow ice to melt and water to drain.
4. Wipe the interior dry before restarting.

6.3 Storage

If storing the refrigerator for an extended period, ensure it is clean, dry, and the lid is slightly ajar to prevent odors and mildew.

7. Troubleshooting

Problem	Possible Cause	Solution
Refrigerator not turning on	No power, faulty cable, power outlet issue.	Check power connections, try a different outlet/cable, ensure vehicle's ignition is on for DC power.

Problem	Possible Cause	Solution
Not cooling effectively	Blocked ventilation, door not sealed, temperature setting too high, too much warm content.	Ensure proper ventilation, check door seal, lower temperature setting, pre-cool items if possible.
Unusual noise	Unit not level, fan obstruction, normal compressor operation.	Place on a level surface, check for obstructions around the fan. Some compressor noise is normal.
Error code on display	Internal fault.	Note the error code and contact customer support. Try restarting the unit.

8. Specifications



Image: Key product dimensions and internal capacity details.

Feature	Detail

Feature	Detail
Brand	VEVOR
Model Number	12 volt refrigerator 50L
Capacity	50 Liters (53 Quarts)
Cooling Range	-4℉ to 68℉ (-20℃ to 20℃)
Power Input	12/24V DC, 110-240V AC
Cooling Method	Compressor
Defrost System	Frost Free
Special Features	App Control, Digital Display, USB Charger, Battery Protection
Product Dimensions (L x W x H)	65.02 x 37.59 x 49.78 cm (25.6 x 14.8 x 19.6 inches)
Item Weight	19.41 kg (42.8 Pounds)
Refrigerant	R-290
Annual Energy Consumption	80 Watt Hours

9. Warranty and Support

No specific warranty description is provided for this product. For any support inquiries, technical assistance, or warranty claims, please contact VEVOR customer service directly. Refer to the manufacturer's official website or your purchase documentation for contact information.

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