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Model: 12V Car Refrigerator 21QT

1. INTRODUCTION

Thank you for choosing the advwin 12V Car Refrigerator Portable Electric Cooler/Warmer. This versatile appliance is designed to keep your food and beverages cool or warm while on the go, making it ideal for road trips, camping, picnics, and daily commutes. Please read this manual thoroughly before use to ensure proper operation and maintenance.



Image 1.1: The advwin 12V Car Refrigerator shown outdoors, containing various beverages and ice, with people enjoying a meal in the background.

2. SAFETY INSTRUCTIONS

- Ensure the power supply voltage matches the specifications of the appliance (DC 12V or AC 110-120V).
- Do not immerse the appliance in water or expose it to heavy rain.
- Keep ventilation openings clear and unobstructed to prevent overheating.
- Avoid placing hot items directly into the cooler/warmer when in cooling mode, or cold items when in warming mode, without allowing them to reach room temperature first.
- Do not use abrasive cleaners or sharp objects inside the unit.

- Unplug the unit from the power source before cleaning or performing any 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.

3. PACKAGE CONTENTS

Please check the package contents upon unpacking:

- 1 x advwin Car Refrigerator
- 1 x Backstrap
- 1 x AC Power Cable (for 110-120V household outlets)
- 1 x DC Power Cable (for 12V vehicle outlets)
- 1 x User Manual (this document)

4. PRODUCT FEATURES

The advwin 12V Car Refrigerator offers the following key features:

- **Portable Design:** 20-liter (21-quart) capacity, suitable for various travel needs.
- **Dual Power Supply:** Operates on 12V DC (car, truck, RV, boat) and 110-120V AC (household outlets).
- **Cooling Function:** Efficiently cools to 14°F (-10°C) or approximately 57°F (14°C) below ambient temperature.
- **Warming Function:** Warms contents up to 149°F (65°C).
- **Easy Operation:** Simple one-button switch for hot/cold mode selection.
- **Low Noise Operation:** Designed for quiet performance.
- **Thermoelectric Cooling:** Utilizes a double-semiconductor refrigeration system.

Keep it Fresh & Cool Warm Food at Hand



Image 4.1: The Adwin 12V Car Refrigerator demonstrating its ability to cool items to 14-50°F and warm items to 122-149°F.

5. SETUP

1. **Unpacking:** Carefully remove the refrigerator from its packaging. Retain packaging materials for future transport or storage.
2. **Initial Cleaning:** Before first use, wipe the interior and exterior surfaces with a damp cloth and mild detergent. Ensure the unit is completely dry before connecting to power.
3. **Placement:** Place the refrigerator on a stable, level surface. Ensure there is adequate ventilation around the unit, especially near the fan vents, to allow for proper heat dissipation.
4. **Power Connection:**
 - **For Vehicle Use (DC 12V):** Connect the DC power cable to the 12V DC input port on the refrigerator, then plug the other end into your vehicle's 12V cigarette lighter socket.
 - **For Home/Indoor Use (AC 110-120V):** Connect the AC power cable to the AC input port on the refrigerator, then plug the other end into a standard 110-120V AC wall outlet.

Important: Do not connect both AC and DC power cables simultaneously.



Image 5.1: Illustration of the two power supply methods: 12/24V DC for car/RV use and 100-120V AC for indoor use.

6. OPERATING INSTRUCTIONS

6.1 Control Panel Overview

Multifunctional Car Refrigerator

The LCD touch screen displays real-time temperature information.



Image 6.1: The control panel features a Power Switch, Mute button, Mode setting, LED Temperature Panel, and Temperature Up/Down buttons.

- **Power Switch:** Turns the unit on or off.
- **LED Temperature Panel:** Displays the current internal temperature.
- **Set the Mode Button:** Toggles between cooling and warming modes.
- **Temp Up / Temp Down Buttons:** Adjusts the target temperature.
- **Mute Button:** Controls fan noise level (if applicable).

6.2 Basic Operation

1. **Power On:** After connecting the appropriate power cable, press the Power Switch button to turn on the unit. The LED display will illuminate.
2. **Select Mode (Cooling/Warming):** Press the 'Set the Mode' button to switch between cooling (indicated by a snowflake icon) and warming (indicated by a sun icon) functions.
3. **Set Temperature:** Use the 'Temp Up' and 'Temp Down' buttons to adjust the desired internal temperature. The unit will work to reach and maintain this temperature.
4. **Mute Function:** If available, press the 'Mute' button to reduce fan noise. Note that this may affect cooling/warming efficiency.
5. **Power Off:** Press the Power Switch button again to turn off the unit. Disconnect the power cable when not

in use.

6.3 Usage Tips

- For best cooling results, pre-chill items before placing them in the refrigerator.
- For best warming results, pre-heat items before placing them in the refrigerator.
- Avoid opening the lid frequently to maintain internal temperature.
- Ensure the lid is securely latched to prevent temperature loss.

7. MAINTENANCE

1. **Cleaning:** Disconnect the power before cleaning. Wipe the interior and exterior with a soft, damp cloth and mild detergent. Do not use abrasive cleaners or solvents.
2. **Ventilation:** Regularly check and clean the ventilation openings to ensure they are free from dust and debris. A small brush or vacuum cleaner can be used.
3. **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.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; faulty cable; vehicle socket issue.	Check power cable connection; ensure power source is active; test with another power source.
Unit is not cooling/warming effectively.	Lid not sealed; blocked vents; ambient temperature too high/low; incorrect mode.	Ensure lid is closed tightly; clear ventilation openings; verify correct mode is selected.
Excessive noise from fan.	Blocked fan; unit on uneven surface.	Check for obstructions in fan; place unit on a stable, level surface.

9. SPECIFICATIONS

Specification	Detail
Type	12V Car Refrigerator
Capacity	20 Liters (21 Quarts)
Working Voltage	DC 12V / AC 110-120V
Power Consumption (Cool)	AC: 80W, DC: 66W
Power Consumption (Warm)	AC: 74W, DC: 57W
Cooling Performance	Down to 14°F (-10°C) or 57°F (14°C) below ambient
Heating Temperature	Up to 149°F (65°C)
Noise Decibel	42dB
Cooling System	Double-Semiconductor Refrigeration
Material	ABS
Product Dimensions (D x W x H)	17.8" x 12.5" x 13.5"
Inner Dimensions (L x W x H)	15" x 8" x 9.8"
Item Weight	31.1 pounds
Installation Type	Freestanding

x30
350ml Cola

x20
550ml Water

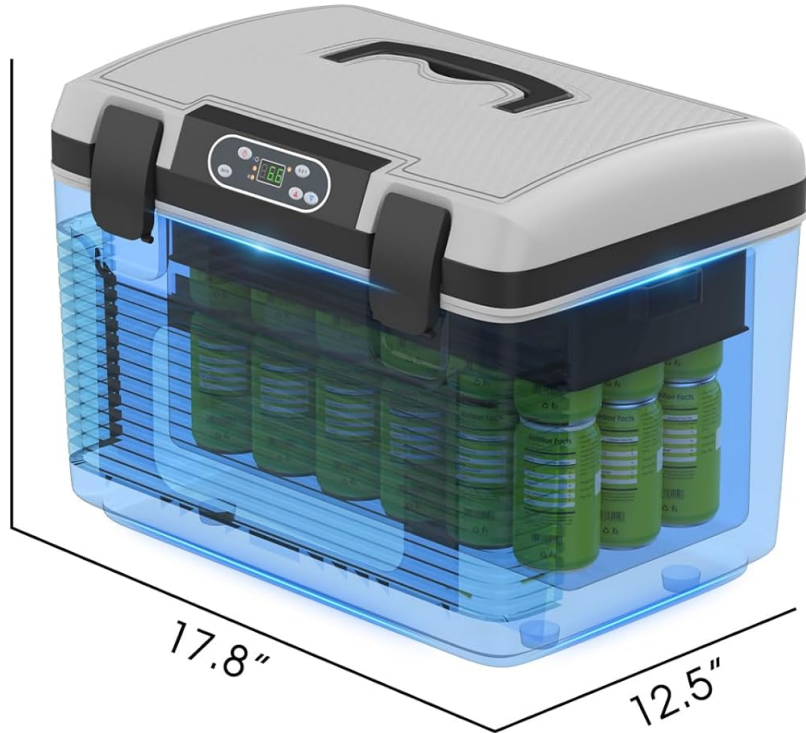
x9
750ml Red wine

x4
2L Cola



Internal : 15*8*9.8inch

13.5"



17.8"

12.5"

21QT

20L Large Capacity

- No ice makes cleaning easy, configuration makes access easy

Image 9.1: Visual representation of the 20L (21QT) capacity and external dimensions of the advwin car refrigerator.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact advwin customer service directly. Contact details can typically be found on the manufacturer's official website or on the product packaging.