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› Alpicool 12V Portable Refrigerator Freezer (Model QX40) User Manual

Alpicool QX40

Alpicool 12V Portable Refrigerator Freezer (Model QX40) User Manual

Your Guide to Safe Operation and Optimal Performance

1. INTRODUCTION

This user manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of your Alpicool 12V Portable Refrigerator Freezer, Model QX40. Please read this manual thoroughly before using the appliance to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury.

- Ensure the power supply voltage matches the specifications of the appliance.
- Do not operate the refrigerator with a damaged power cord or plug.
- Avoid placing the unit in direct sunlight or near heat sources.
- Ensure adequate ventilation around the unit to prevent overheating.
- Do not immerse the refrigerator in water or expose it to heavy rain.
- Keep children away from the appliance, especially when it is operating.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Always disconnect the power supply before cleaning or performing maintenance.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Alpicool 42 Quarts Portable Refrigerator Freezer (Model QX40)
- User Manual
- 12V / 24V DC Power Cord
- 110V~240V AC Adapter and Power Cord

4. PRODUCT FEATURES

The Alpicool QX40 Portable Refrigerator Freezer is designed for versatility and efficiency, offering a range of features for your convenience:

- **Dual Zone Functionality:** Operates as both a refrigerator and a freezer, allowing customized temperature settings for different compartments.
- **Generous Capacity:** 42-quart (40-liter) storage space, capable of holding numerous beverages and food items.
- **Wide Temperature Range:** Adjustable from -4°F (-20°C) to 68°F (20°C).
- **Powerful Compressor:** Rapid cooling performance, reaching 32°F (0°C) in approximately 15 minutes from 77°F (25°C).
- **Energy Modes:** Features ECO mode (45W) for energy saving and MAX mode (60W) for fast cooling.
- **Battery Protection System:** Three levels (H/M/L) to prevent draining your vehicle's battery.
- **Anti-Shake Design:** Ensures stable operation even on inclines up to 45 degrees, suitable for off-road use.
- **Safety Tie-Down Slots:** Integrated slots for securing the unit in a vehicle during travel.
- **Interior LED Light:** Provides illumination for easy access to contents in low-light conditions.
- **Low Noise Operation:** Designed to operate quietly, minimizing disturbance.



Figure 1: Alpicool QX40 Portable Refrigerator Freezer with contents.

5. SETUP

5.1 Unpacking and Placement

1. Carefully remove the refrigerator from its packaging.
2. Place the unit on a stable, level surface. Ensure there is at least 10 cm (4 inches) of space around all sides for proper ventilation.
3. Avoid placing the unit near heat sources or in direct sunlight.

5.2 Power Connection

The Alpicool QX40 supports both AC and DC power inputs.

DC / AC POWER SUPPLY



Figure 2: Available power supply options for the refrigerator.

- **DC Power (12V/24V):** Use the provided DC power cord to connect the refrigerator to your vehicle's cigarette lighter socket (12V for cars, 24V for RVs/trucks).
- **AC Power (110V/240V):** Use the provided AC adapter and power cord to connect the refrigerator to a standard household electrical outlet.

Ensure the power cord is securely connected to both the refrigerator and the power source.

6. OPERATING INSTRUCTIONS

6.1 Control Panel Overview

The control panel is located on the top of the unit and includes a digital display, temperature adjustment buttons (+/-), and mode selection buttons.







6.2 Setting Temperature and Dual Zone Operation

The QX40 features a dual-zone design, allowing you to set different temperatures for each compartment. The smaller compartment's temperature is always above 32°F (0°C).

DUAL ZONE REFRIGERATOR

Fridge or Freezer, Customized Temperature



| | |
|---|---|
| Beverages  40°F~50°F | Fruits  41°F~46°F |
| Vegetables  41°F~46°F | Beef  0°F~4°F |
| Seafood  0°F~4°F | Ice Cream  0°F~14°F |

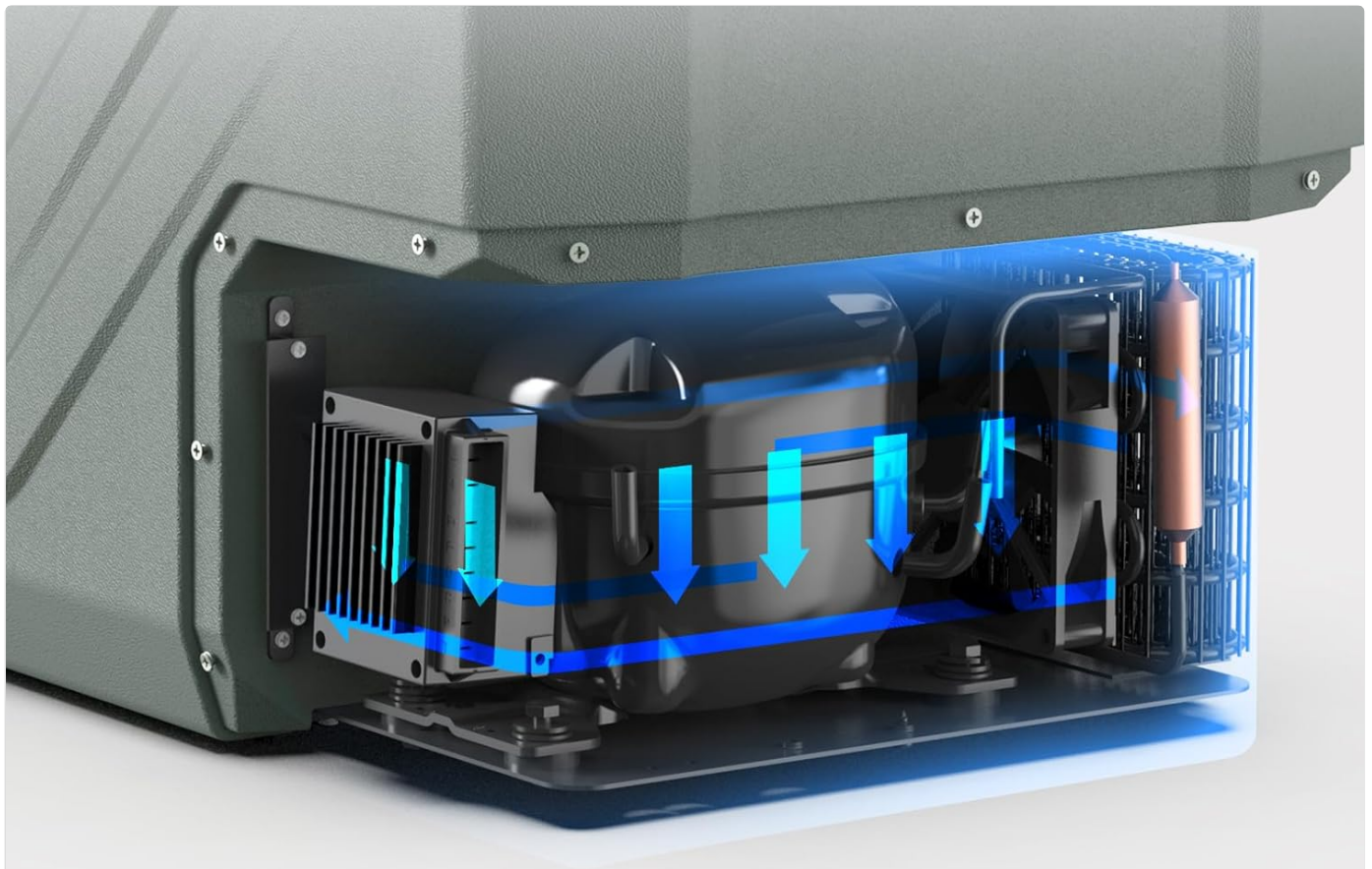
* The temperature of the small compartment is always above 32°F

Figure 3: Dual Zone Refrigerator functionality and recommended temperatures.

1. Press the power button to turn on the unit.
2. Use the '+' and '-' buttons to adjust the desired temperature for the main compartment. The display will show the current temperature and then flash the set temperature.
3. The unit will automatically begin cooling to the set temperature.

6.3 ECO and MAX Modes

The refrigerator offers two operating modes:



POWERFUL & EFFICIENCY FOR FAST COOLING

ECO Mode 

45W Energy Saving

MAX Mode 

60W Fast Cooling

Figure 4: ECO and MAX cooling modes.

- **ECO Mode (45W):** For energy-saving operation, ideal for maintaining temperature over longer periods.
- **MAX Mode (60W):** For rapid cooling, recommended when initially loading warm items or needing quick temperature reduction.

Press the 'SET' button repeatedly to cycle between ECO and MAX modes.

6.4 Battery Protection System

The unit features a 3-level battery protection system (H/M/L) to prevent excessive discharge of your vehicle's battery.



Figure 5: Battery protection levels.

- **H (High):** Highest cut-off voltage, suitable for starting batteries.
- **M (Medium):** Medium cut-off voltage, suitable for most applications.
- **L (Low):** Lowest cut-off voltage, suitable for deep cycle batteries.

To adjust the battery protection level, press and hold the 'SET' button for 3 seconds until the display flashes. Then, press 'SET' again to cycle through H, M, L. Release the button to confirm your selection. It is recommended to set to 'H' when connected to a vehicle's starting battery to prevent it from draining completely.

6.5 Securing the Unit

For safe transport in a vehicle, utilize the integrated tie-down slots.

SAFETY TIE DOWN SLOTS

There are four slots for you to fasten the refrigerator on to the car while you travel through a bumpy road.



Figure 6: Using safety tie-down slots.

Pass straps through the designated slots on the unit and secure them to anchor points in your vehicle's trunk or seating area. This prevents movement during travel, especially on uneven terrain.

7. MAINTENANCE

7.1 Cleaning

1. Disconnect the power supply before cleaning.
2. Clean the interior and exterior surfaces with a damp cloth and a mild detergent.
3. Do not use abrasive cleaners, harsh chemicals, or sharp objects, as these can damage the surfaces.
4. Ensure the unit is completely dry before reconnecting power.

7.2 Defrosting

The Alpicool QX40 features a frost-free design. However, if ice buildup occurs, disconnect the power and allow the ice to melt

naturally. Wipe away excess water with a clean cloth.

7.3 Storage

When storing the refrigerator for an extended period:

- Ensure the unit is clean and dry.
- Leave the lid slightly ajar to prevent odors and mildew.
- Store in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your Alpicool QX40, refer to the following table for common problems and solutions.

| Problem | Possible Cause | Solution |
|-----------------------------|---|---|
| Refrigerator not turning on | No power supply; Damaged power cord; Blown fuse. | Check power connection; Replace power cord; Check vehicle's fuse box. |
| Not cooling sufficiently | Temperature setting too high; Poor ventilation; Overloaded with warm items; Door not sealed properly. | Lower temperature setting; Ensure adequate space around unit; Allow time for cooling; Check door seal for obstructions. |
| Unit making unusual noise | Unit not level; Fan obstruction; Compressor vibration. | Place on a level surface; Check for obstructions around fan; This is normal during compressor operation. |
| Error codes on display | Specific internal fault. | Refer to the specific error code in the full manual or contact customer support. |

If the problem persists after attempting these solutions, please contact Alpicool customer support.

9. SPECIFICATIONS

| Feature | Detail |
|------------------------------|---|
| Brand | Alpicool |
| Model | QX40 |
| Capacity | 42 Quarts (40 Liters) |
| Temperature Range | -4°F to 68°F (-20°C to 20°C) |
| Power Input | 12V/24V DC, 110V/240V AC |
| Power Consumption (ECO Mode) | 45W |
| Power Consumption (MAX Mode) | 60W |
| Item Weight | 30.6 Pounds |
| Product Dimensions | 25.5 x 14.6 x 20.5 inches (64.8 x 37.1 x 52.1 cm) |

| Feature | Detail |
|------------------|---|
| Special Features | Anti-Shake, Energy Efficient, Large Capacity, Low Noise, Portable |
| Color | Green |
| Defrost System | Frost Free |

42 QUART LARGE CAPACITY

Keep the food fresh all way long

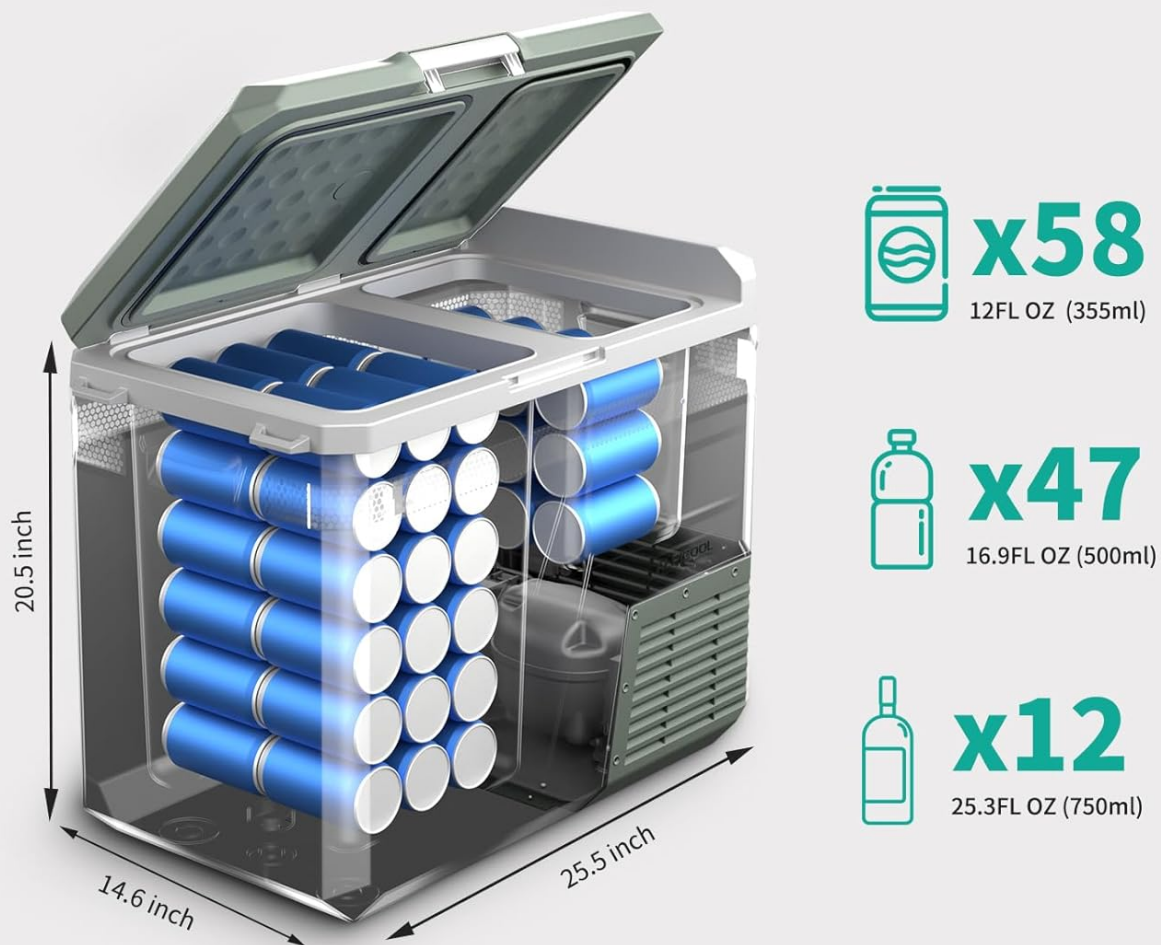


Figure 7: Capacity and dimensions of the Alpicool QX40.

10. WARRANTY & SUPPORT

Alpicool provides the following warranty for your QX40 Portable Refrigerator Freezer:

- **Compressor:** 3-year warranty from the date of purchase.
- **All Other Accessories:** 1-year warranty from the date of purchase.

For any further questions regarding the portable freezer or after-sale service, please contact Alpicool customer support. Our professional support team is available to assist you with any issues or inquiries.

You can typically find contact information on the official Alpicool website or through your purchase platform.