Gidrox LCRAC10HC-12V

Gidrox 10000 BTU 12V DC RV Air Conditioner with Heater User Manual

Model: LCRAC10HC-12V

1. Product Overview

This manual provides instructions for the Gidrox 10000 BTU 12V DC RV Air Conditioner with Heater. This unit is designed for recreational vehicles, camper vans, and trucks, offering both cooling and heating functionalities. It operates directly from a 12V DC power source, emphasizing energy efficiency and quiet operation.

2. Key Features

- **Rapid Climate Control:** Provides both cooling and heating functions, achieving desired temperatures within approximately 3 minutes.
- **12V DC Operation:** Designed to run directly from an RV battery, eliminating the need for an inverter and reducing power consumption. Average power consumption is approximately 350W during nighttime operation (at 30°C ambient temperature).
- **Ultra-Quiet Performance:** Features a brushless fan and sound-insulation design, operating at a noise level as low as 40dB in Sleep mode.
- **Multiple Operating Modes:** Includes Turbo (rapid cooling/warming), ECO (energy-efficient), and Sleep (quiet operation) modes.
- **Smart Control Options:** Controllable via a smartphone application (Bluetooth connection), infrared remote control, and physical buttons on the unit.
- **Lightweight and Easy Installation:** Weighs approximately 54 lbs (24.5 kg) and is designed for installation in standard 14"x14" RV roof cutouts. Compatible with roof thicknesses between 1.5" and 3.5".

3. Package Contents

Verify that all components are present in the package before beginning installation.

- Outdoor Unit (Rooftop AC Unit)
- Indoor Unit (Air Distribution Box)
- 19.7 FT Power Cable
- Installation Kit (includes sealing sponge, bracket, screws, cable ties)

- Remote Control



Image: Contents of the Gidrox RV Air Conditioner package, including outdoor unit, indoor unit, power cable, installation kit, and remote control.

4. Safety Information

Read all safety instructions before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death.

- **Professional Installation Recommended:** Installation should be performed by qualified personnel familiar with RV electrical systems and roof structures.
- **Electrical Safety:** Ensure the 12V DC power source is disconnected before any installation or maintenance. Use appropriate wire gauges and fusing as specified in the installation guide.
- **Roof Integrity:** Verify the structural integrity of the RV roof before installation. The roof must be capable of supporting the unit's weight (approximately 54 lbs).
- **Ventilation:** Ensure proper airflow around the outdoor unit for efficient operation.
- **Battery Compatibility:** Use a battery system capable of providing the necessary current and capacity for the unit's operation.

5. Installation

The Gidrox RV Air Conditioner is designed for straightforward installation into standard 14"x14" roof openings. Ensure the roof thickness is between 1.5" and 3.5".

5.1 Pre-Installation Steps

1. **Choose Location:** Select a flat, structurally sound area on the RV roof with a standard 14"x14" opening.
2. **Prepare Opening:** If replacing an existing unit, remove the old unit and clean the opening thoroughly. If creating a new opening, carefully cut a 14"x14" hole, ensuring no structural damage.
3. **Disconnect Power:** Ensure all 12V DC power to the RV is disconnected before proceeding.

5.2 Installation Procedure (4 Steps)

1. **Install Sealing Sponge:** Apply the provided sealing sponge around the roof opening to create a watertight seal.
2. **Position Outdoor Unit:** Carefully lift and position the outdoor unit over the prepared roof opening. Ensure it is centered and properly seated on the sealing sponge. The unit weighs approximately 54 lbs.

3. **Connect Wires:** From inside the RV, pull the power wires from the outdoor unit through the opening. Connect these wires to the indoor unit according to the wiring diagram in the full manual. The unit includes a 19.7 ft power cable.
4. **Tighten Interior Bolts:** Secure the indoor unit to the outdoor unit using the provided mounting hardware and bolts. Tighten evenly to compress the sealing sponge and create a secure, weatherproof installation.



Image: The Gidrox RV Air Conditioner unit being placed into a standard 14"x14" RV roof opening, illustrating its dimensions and weight.



Image: A person connecting wires for the indoor unit of the Gidrox RV Air Conditioner, showing the power cord length and roof thickness compatibility.



Image: A visual representation of the 4-step quick installation process for the Gidrox RV Air Conditioner, from sealing to tightening bolts.

Your browser does not support the video tag.

Video: This video demonstrates the setup process for the indoor unit of an Inverter RV Air Conditioner, showing how components are connected and secured.

6. Operation

The Gidrox RV Air Conditioner offers flexible control options and various modes to suit your comfort needs.

6.1 Control Methods

- **Smartphone App:** Connect via Bluetooth to control the unit, set temperatures, program timers, and switch between °C/°F display.
- **Infrared Remote Control:** Use the included remote for convenient adjustments from anywhere in the RV.
- **Control Panel:** Physical buttons on the indoor unit allow direct control of all functions.

6.2 Operating Modes

- **Turbo Mode:** Provides rapid cooling or warming for quick temperature changes.
- **ECO Mode:** Optimizes energy consumption for extended battery life, ideal for overnight use.
- **Sleep Mode:** Operates at the lowest noise level (approx. 40dB) for undisturbed rest.
- **Fan Mode:** Circulates air without cooling or heating.
- **Dry Mode:** Reduces humidity in the air.



Image: A smartphone displaying the Gidrox app interface, demonstrating smart control capabilities for the RV Air Conditioner.



Image: An interior view of an RV with the Gidrox Air Conditioner operating, highlighting its quiet performance in Sleep mode at 40dB.

Your browser does not support the video tag.

Video: This video provides an overview of the 12V DC RV Air Conditioner, showcasing its features and operation.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your Gidrox RV Air Conditioner.

- **Air Filter Cleaning:** Periodically remove and clean the air filters located in the indoor unit. Wash with mild soap and water, then allow to dry completely before reinstallation.
- **Exterior Cleaning:** Keep the outdoor unit free from debris, leaves, and dirt. Gently wipe the exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Check Connections:** Annually inspect all electrical connections for tightness and signs of corrosion. Ensure the roof seal remains intact and free of cracks.

8. Troubleshooting

Refer to this section for common issues and their solutions. If problems persist, contact Gidrox customer support.

Problem	Possible Cause	Solution
Unit does not power on	No 12V DC power; Blown fuse; Loose wiring connection	Check battery connections and charge level; Inspect and replace fuse if necessary; Verify all wiring connections are secure.
Insufficient cooling/heating	Dirty air filter; Blocked outdoor unit; Incorrect mode selection; Low refrigerant (professional service required)	Clean air filter; Clear any obstructions from the outdoor unit; Select appropriate operating mode (Turbo, ECO); Contact service technician for refrigerant issues.
Unusual noise during operation	Loose components; Debris in fan; Unit not level	Inspect for loose screws or panels; Check for and remove any debris from the fan area; Ensure the RV and unit are level.
App connectivity issues	Bluetooth not enabled; Unit out of range; App not updated	Ensure Bluetooth is active on your device; Move closer to the unit; Update the Gidrox app to the latest version.

9. Specifications

Brand:
Gidrox

Model Name:
LCRAC10HC-12V

Cooling Power:
10000 British Thermal Units (BTU)

Heating Capacity:
4500 BTU (PTC)

Voltage:
12 Volts DC

Rated Power:
700W (Average)

Noise Level:
40 Decibels (in Sleep Mode)

Product Dimensions (D x W x H):
34.6" x 29.5" x 7"

Item Weight:
60 Pounds (27.2 kg)

Installation Type:
Rooftop, Split System (Non-Ducted)

Roof Opening Compatibility:
Standard 14" x 14"

Roof Thickness Compatibility:
1.5" - 3.5"

Control Method:

App, Push Button, Remote Control

Refrigerant Type:

R134A (1.21 lbs)

10. Warranty and Support

The Gidrox 10000 BTU 12V DC RV Air Conditioner with Heater comes with a **2-year warranty**. An additional **1-year extended coverage** may be available. For technical assistance, troubleshooting, or warranty claims, please contact Gidrox customer support through their official channels.



Image: Gidrox customer support team, illustrating the 2-year warranty and 1-year extended coverage.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question