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Gidrox LCRAC12HC-12V

Gidrox LCRAC12HC-12V 12000 BTU 12V DC RV Air Conditioner with Heat Pump Instruction Manual

Your comprehensive guide to installation, operation, and maintenance.

1. Introduction

Thank you for choosing the Gidrox LCRAC12HC-12V 12000 BTU 12V DC RV Air Conditioner with Heat Pump. This unit is designed to provide efficient cooling and heating for your RV, camper van, or truck, offering comfort and convenience on the go. Please read this manual thoroughly before installation and operation to ensure safe and optimal use of your new appliance.



Figure 1: Gidrox 12V RV Air Conditioner, offering 12,000 BTU cooling and 9,000 BTU heating for year-round comfort.

2. Safety Information

Always prioritize safety during installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death.

- Ensure the unit is powered directly by a 12V DC battery system. Do not connect to higher voltage systems without appropriate converters.
- Verify all electrical connections are secure and correctly polarized (positive to positive, negative to negative) to prevent short circuits or damage.
- Installation should be performed by qualified personnel or individuals with sufficient technical knowledge to handle electrical and mechanical work safely.
- Always disconnect power before performing any maintenance or troubleshooting.
- Ensure proper sealing around the roof cutout to prevent water leakage into the vehicle.

- Do not obstruct the air intake or exhaust vents of the unit.

3. What's in the Box

Your Gidrox RV Air Conditioner package includes the following components:

- Gidrox 12000 BTU 12V DC RV Air Conditioner Unit (Outdoor and Indoor Assembly)
- Installation Kit (including mounting hardware)
- 19.7 FT Power Cable
- Remote Control
- User Manual

4. Setup & Installation

The Gidrox RV Air Conditioner is designed for easy installation, fitting standard 14"x14" RV roof cutouts. The unit weighs approximately 54 lbs.

4.1. Pre-Installation Checks

- Ensure your RV roof can support the unit's weight (54 lbs) and is between 1.5" and 3.5" thick.
- Confirm a standard 14"x14" roof cutout is available or can be safely created.
- Plan the routing for the 19.7 FT power cable to your 12V DC battery system.



Figure 2: The Gidrox RV Air Conditioner fits standard 14"x14" RV A/C openings and weighs 54 lbs. Dimensions are 34.6"D x 29.5"W x 7"H.

4.2. Mounting the Unit

1. Carefully lift the outdoor unit onto the RV roof, aligning it with the 14"x14" opening.
2. From inside the RV, install the indoor assembly and mounting hardware, securing the unit firmly to the roof.
3. Connect the 19.7 FT power cable to your 12V DC battery system, ensuring correct polarity.



Figure 3: Installation of the indoor unit, showing the power cord and compatibility with various roof thicknesses.

4.3. Installation Video Guide

Video 1: An overview of the 12V DC RV Air Conditioner by Gidrox Direct, demonstrating its features and compact design.

Video 2: Demonstration of an Inverter RV Air Conditioner Indoor Unit Setup (from HVAC & Auto Parts), illustrating general installation steps applicable to similar units.

5. Operating Instructions

Your Gidrox RV Air Conditioner offers multiple control options and operating modes for personalized comfort.

5.1. Control Options

- **Smartphone APP:** Connect via Bluetooth to control settings from your smartphone.
- **Infrared Remote:** Use the included remote control for convenient adjustments.

- **Physical Buttons:** Operate the unit directly using the buttons on the control panel.



Figure 4: Smart App Control via Bluetooth for convenient operation from your smartphone.

5.2. Operating Modes

- **Turbo Mode:** Provides rapid cooling or warming for quick temperature changes.
- **ECO Mode:** Energy-efficient operation to conserve battery life.
- **Sleep Mode:** Ultra-quiet operation (as low as 40dB) for undisturbed rest.

You can set the desired temperature, program timers, and switch between °C/°F display. The unit also features automatic power adjustment based on temperature differences.



Figure 5: The unit operates at a library-quiet 40dB in Sleep mode, ensuring undisturbed rest.

5.3. Adjustable Fan Speed Video Guide

Video 3: Demonstration of adjustable fan speed control on an RV Air Conditioner (from Mizudo Home Comfort Direct), showcasing how to customize airflow.

6. Features & Benefits

The Gidrox LCRAC12HC-12V is packed with features designed to enhance your mobile comfort:

- **Efficient Heat Pump:** Delivers 9,000 BTU heating (saving ~65% energy vs. standard heaters) and 12,000 BTU cooling (EER up to 12.3) for year-round high efficiency.
- **12V DC, Worry-Free Battery Life:** Powered directly by your RV battery, eliminating the need for an inverter. Tested average power consumption is only about 350W during nighttime operation (in 30°C ambient), saving approximately 60% energy compared to traditional AC units. Can support all-night use when paired with a 400Ah battery.

- **Ultra-Quiet Operation:** Featuring a brushless fan and sound-insulation design, it operates at a library-quiet 40dB in Sleep mode.
- **Lightweight & Streamlined Design:** At only 54 lbs total, it's lightweight for easy handling and features a streamlined design to reduce drag during travel.



Figure 6: Enjoy off-grid freedom with the 12V DC battery-powered system, offering up to 13 hours of runtime with a 400Ah battery in ECO Mode.

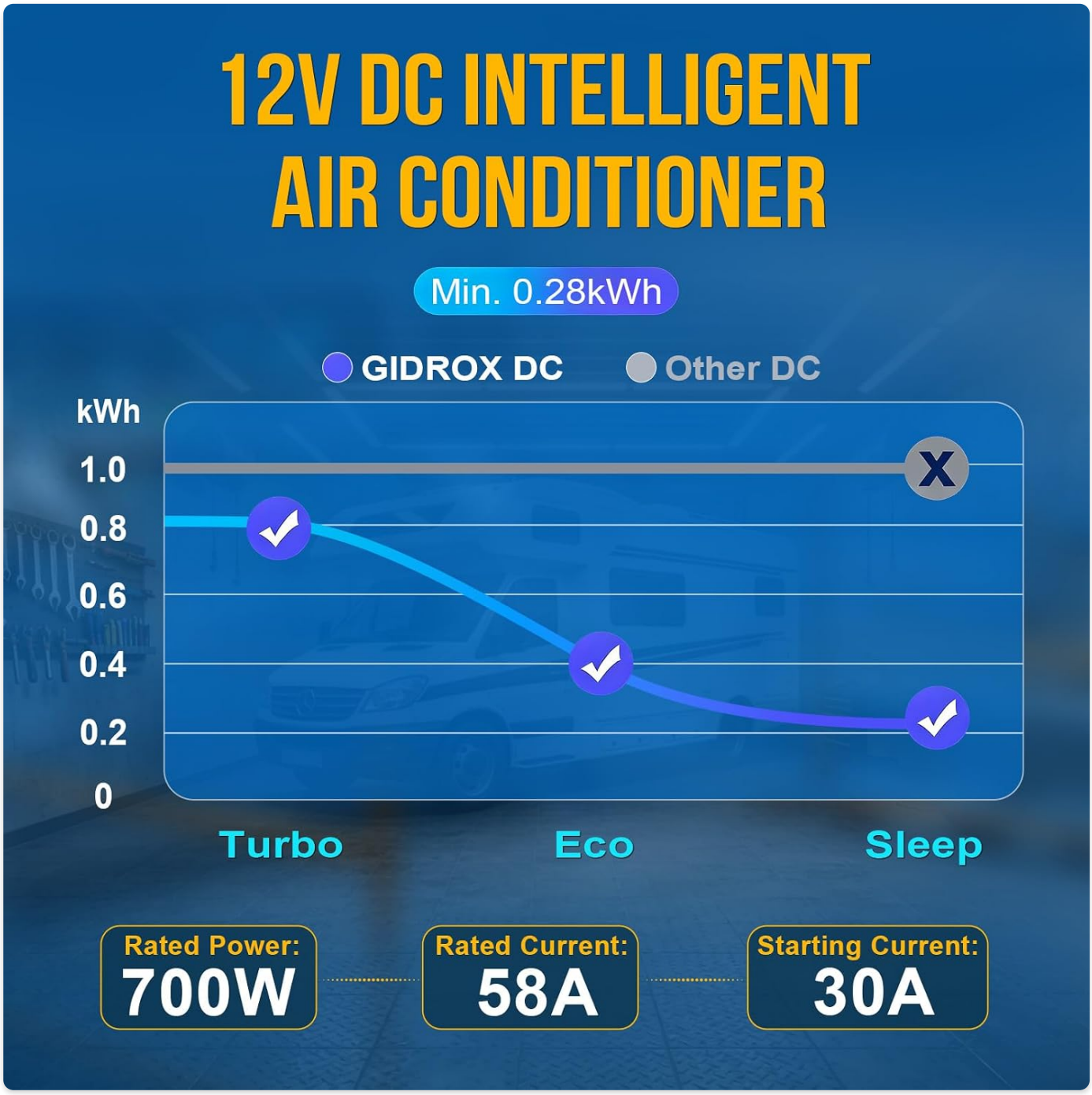


Figure 7: The 12V DC Intelligent Air Conditioner demonstrates minimal power consumption, especially in ECO and Sleep modes.



Figure 8: The streamlined design of the Gidrox unit helps reduce drag, making it suitable for RVs, vans, and trucks.

6.1. Heating and Low Power Video Guide

Video 4: A demonstration of an RV Air Conditioner's heating and low power capabilities (from Mizudo Home Comfort Direct), highlighting energy efficiency for similar heat pump units.

7. Specifications

Attribute	Value
Brand	Gidrox
Model Name	LCRAC12HC-12V
Cooling Power	12000 British Thermal Units

Heating Power	9000 British Thermal Units
Voltage	12 Volts
Noise Level	40 Decibels (Sleep Mode)
Product Dimensions	34.6"D x 29.5"W x 7"H
Item Weight	54 lbs (Unit), 62 lbs (Shipping)
Roof Cutout Compatibility	14" x 14"
Roof Thickness Compatibility	1.5" to 3.5"
Power Source	Battery Powered
Control Method	App, Push Button, Remote
Refrigerant	R-134A

8. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Gidrox RV Air Conditioner.

- **Clean Air Filters:** Periodically check and clean the air filters on the indoor unit to maintain optimal airflow and efficiency.
- **Inspect Electrical Connections:** Annually inspect all electrical connections for tightness and signs of corrosion.
- **Check Roof Seal:** Regularly inspect the roof seal around the unit for cracks or deterioration and re-seal as necessary to prevent water intrusion.
- **Clear Debris:** Keep the outdoor unit free from leaves, dirt, and other debris that could obstruct airflow or damage components.

9. Troubleshooting

If you encounter issues with your unit, refer to the following common troubleshooting steps:

- **Unit Not Turning On:** Check battery connections and ensure the 12V DC power supply is active and sufficient. Verify all fuses are intact.
- **Poor Cooling/Heating Performance:** Ensure air filters are clean and not obstructed. Check that all vents are open and not blocked. Verify the set temperature is appropriate for the desired mode.
- **Unusual Noise:** Inspect the fan for any obstructions. If noise persists, contact customer support.
- **Water Leakage:** Check the roof seal around the unit. Ensure the unit is level to allow proper drainage.

For persistent issues or problems not listed here, please contact Gidrox customer support.

10. Warranty & Support

The Gidrox LCRAC12HC-12V RV Air Conditioner comes with a**2-year limited warranty** from the manufacturer, Gidrox.

For warranty claims, technical support, or any questions regarding your product, please contact Gidrox customer service.

Refer to your purchase documentation for specific contact details.

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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.

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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

Answered questions about this manual

Can the Gidrox LCRAC12HC-12V RV Air Conditioner be operated in a fan-only mode to circulate air?

Yes, the Gidrox LCRAC12HC-12V can be operated as a fan. While the manual primarily highlights its cooling and heating modes, it specifically mentions Adjustable Fan Speed (Section 5.3) and the use of a brushless...

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