

Treeligo EAC002.18.24.HC

Treeligo 24V 10000BTU RV Rooftop Air Conditioner User Manual

Model: EAC002.18.24.HC

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Treeligo 24V 10000BTU RV Rooftop Air Conditioner. Please read this manual thoroughly before using the unit to ensure proper function and safety. Keep this manual for future reference.

2. SAFETY INFORMATION

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

- Ensure the power supply matches the unit's voltage requirements (24V DC).
- Disconnect power before performing any installation, maintenance, or troubleshooting.
- Installation should be performed by qualified personnel or follow the instructions carefully.
- Do not block air inlets or outlets.
- Do not insert objects into the unit.
- Keep flammable materials away from the unit.
- Regularly inspect power cables for damage.

3. PRODUCT OVERVIEW

The Treeligo 24V 10000BTU RV Rooftop Air Conditioner is designed to provide efficient heating and cooling for recreational vehicles, trucks, campers, and trailers. It features a powerful 10000 BTU capacity for rapid climate control and operates quietly.

Key Features:

- **Powerful & Rapid Climate Control:** 10000 BTU cooling and efficient heating for quick temperature adjustments.

- **Energy-Saving:** Designed for 24V systems, operating from vehicle battery or external power.
- **Quiet Operation:** Operates below 50 dB, ensuring a peaceful environment.
- **Compact Design:** Optimized dimensions for rooftop installation.
- **Robust Airflow:** 450 m³/h (450 CFM) for fast and even cooling.
- **360° Adjustable Airflow:** Precision control over air direction.
- **Built-in LED Light:** For added convenience.



Image 1: Advanced Technology Integration. This image illustrates the internal components including an efficient vortex compressor, durable aluminum tube condenser, high-conductivity aluminum tube evaporator, and a powerful wind turbine.



Image 2: Key Features. This image highlights 10,000 BTU cooling, strong airflow (450 m³/h), no fuel consumption, compatibility with most RV sunroofs, and quiet operation.

3 OPERATING MODES



Energy Saving Mode



Standard Mode



Powerful Mode

Image 3: Premium Build & Reliable Performance. Shows the interior unit with adjustable vents and the electronic control panel.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your RV air conditioner. It is recommended to have installation performed by a qualified technician or to follow these instructions carefully.

Pre-Installation Checks:

- Verify that your RV roof has adequate space for the outdoor unit (28" x 26" x 7").
- Ensure the roof opening for the indoor unit meets the minimum requirement: 12.60" (L) x 10.24" (W).
- Confirm your vehicle's electrical system is 24V DC and can support the unit's current draw (30-60A).

Installation Steps (General Guidance):

1. **Prepare the Roof Opening:** If an existing opening is not present, create one according to the specified dimensions (12.60" x 10.24"). Ensure the area is clean and free of debris.
2. **Mount the Outdoor Unit:** Carefully lift and position the outdoor unit over the prepared roof opening. Secure it using the provided mounting hardware, ensuring a watertight seal.
3. **Connect Electrical Wiring:** Route the 24V DC power cables to the unit. Connect the wiring according to the wiring diagram provided in the full installation manual (not included here). Ensure all connections are secure and insulated.
4. **Install the Indoor Unit:** From inside the RV, attach the indoor air distribution box to the outdoor unit through the roof opening. Secure it firmly.
5. **Test Operation:** Once installation is complete, restore power and test the unit's cooling and heating functions.

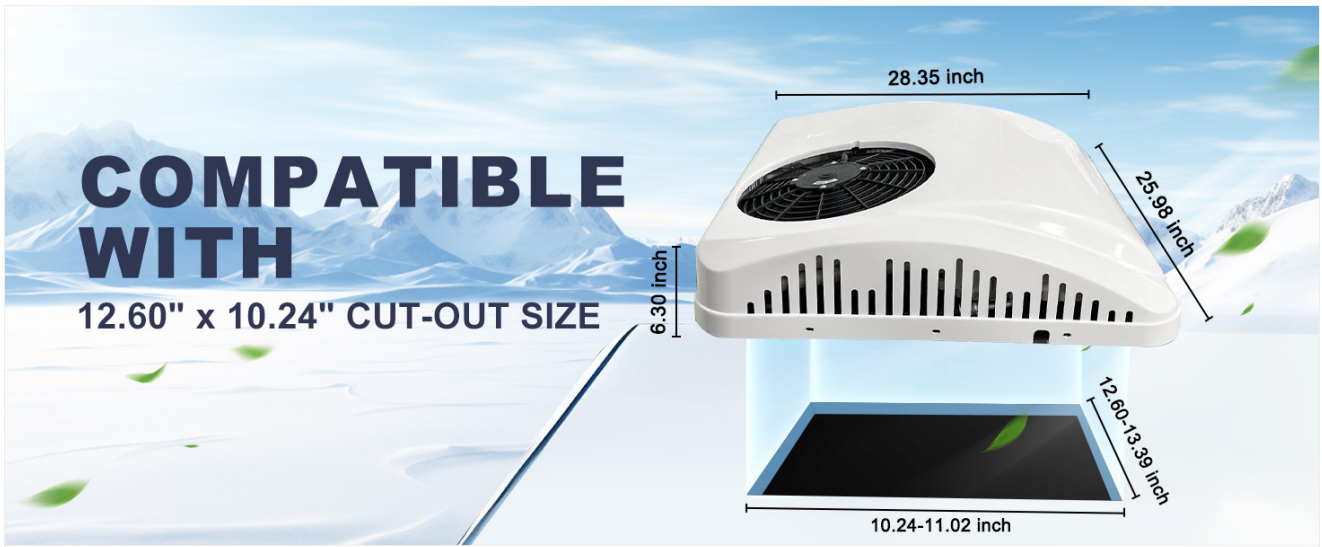


Image 4: Compatible Cut-out Size. This diagram illustrates the required roof opening dimensions of 12.60" x 10.24" for proper installation.

QUICK COOLING WITH A GENTLE & COMFORTABLE BREEZE



PARAMETERS OF AC UNIT

Rated Voltage: 24 Volts (DC)
Current: 30-60A
Rated Power: 400-1000W
Refrigerant: R134a/500g
Frozen Oil: POE68
Cooling Capacity: 10000 BTUs
Indoor Unit Air Volume: 450 CFM

Noise Level: 43 dB
Function: Heating and Cooling
Application: Universal
Installation Size: 12.60 x 10.24 inch
Outdoor Unit Size: 28.35 x 25.98
x 6.30 inch
Indoor Unit Size: 23.23 x 19.29 inch

Image 5: Easy DIY Installation Examples. This image displays various installation scenarios on different types of RVs and trucks, demonstrating the unit's versatility.

5. OPERATING INSTRUCTIONS

The Treeligo RV Air Conditioner can be operated via its electronic control panel or a remote control (if included).

Control Panel Functions:

- **Power Button:** Turns the unit ON/OFF.
- **Mode Button:** Cycles through operating modes:

- **Energy Saving Mode:** Optimizes power consumption.
- **Standard Mode:** Balanced cooling/heating.
- **Powerful Mode:** Maximum cooling/heating output.
- **Temperature Adjustment:** Use the up/down arrows to set the desired temperature.
- **Fan Speed:** Adjusts the fan speed for airflow control.
- **LED Light Button:** Controls the built-in LED light.

Airflow Adjustment:

The indoor unit features 360° rotatable vents. Adjust these vents manually to direct airflow as desired for optimal comfort.



Image 6: Quick Cooling with Gentle Breeze. This image shows the interior unit distributing air and highlights the control panel and key specifications.

6. MAINTENANCE

Regular maintenance ensures efficient operation and extends the lifespan of your air conditioner.

- **Clean Air Filters:** Periodically remove and clean the air filters located in the indoor unit. Wash with mild soap and water, rinse thoroughly, and allow to dry completely before reinstallation.
- **Inspect Outdoor Unit:** Keep the outdoor unit free from leaves, dirt, and other debris that can obstruct airflow. Gently clean the condenser coils if necessary.
- **Check Electrical Connections:** Annually, or if issues arise, inspect all electrical connections for tightness and signs of corrosion.
- **Drainage:** Ensure the condensate drain is clear and free-flowing to prevent water buildup.

7. TROUBLESHOOTING

Before contacting support, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; Blown fuse; Loose wiring.	Check 24V DC power source; Inspect fuses; Verify electrical connections.

Problem	Possible Cause	Solution
Insufficient cooling/heating.	Dirty air filters; Blocked outdoor unit; Incorrect mode setting; Low refrigerant.	Clean air filters; Clear obstructions from outdoor unit; Select appropriate operating mode; Contact service for refrigerant check.
Unusual noise during operation.	Loose components; Debris in fan; Unit not level.	Inspect for loose parts; Remove debris; Ensure unit is level.
Water leakage.	Blocked condensate drain; Improper installation seal.	Clear drain hose; Check roof seal and re-seal if necessary.

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

8. SPECIFICATIONS

Parameter	Value
Brand	Treeligo
Model Number	EAC002.18.24.HC
Rated Voltage	24 Volts (DC)
Current	30-60A
Rated Power	400-1000W
Cooling Capacity	10000 BTUs
Refrigerant	R134a/500g
Frozen Oil	POE68
Noise Level	43 dB (typical)
Function	Heating and Cooling
Application	Universal (RV, Motorhome, Truck, Camper, Trailer, Caravan)
Installation Type	Rooftop (for 12.60" x 10.24" cut-out)
Outdoor Unit Size	28.35" x 25.98" x 6.30" (L x W x H)
Indoor Unit Size	23.23" x 19.29" (L x W)
Indoor Unit Air Volume	450 CFM

LOW NOISE Comfortable Experience without Noise Disturbance



Image 7: 45dB Low-Noise Operation. This graph illustrates the low noise level of the unit compared to other decibel levels, emphasizing its quiet performance.

9. WARRANTY AND SUPPORT

Treeligo is committed to providing reliable products and customer satisfaction. While specific warranty details are not provided in this document, please retain your proof of purchase for any warranty claims.

For installation assistance, operational questions, troubleshooting guidance beyond this manual, or warranty inquiries, please contact Treeligo customer support. They are available to assist you with detailed information and solutions.

Contact Information: Refer to the official Treeligo website or your purchase documentation for the most current contact details.