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Treeligo EAC001.32.R

Treeligo 12V Mini Split Air Conditioner

MODEL: EAC001.32.R - INSTRUCTION MANUAL

Product Overview

The Treeligo 12V Mini Split Air Conditioner is designed to provide efficient cooling for various vehicle types, including semi-trucks, RVs, vans, pickups, cars, trailers, and buses. This unit operates on a 12-volt DC power supply, offering a cooling capacity of 8500 BTU with low noise operation. It features a variable frequency compressor for energy efficiency and multiple operating modes to suit different needs.



Image: The Trealigo 12V Mini Split Air Conditioner, featuring the indoor evaporator unit and the outdoor condenser unit.

Safety Information

Before installation or operation, please read all safety warnings and instructions carefully. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- Ensure the power supply is disconnected before performing any installation or maintenance.
- Installation should be performed by qualified personnel to prevent damage and ensure proper function.
- Do not connect the power cord to the power-off switch or the power switch directly. Connect directly to the battery, observing correct polarity (+ positive / - negative).
- Use only the specified refrigerant (R134a) and quantity (550-650g).
- Keep children and pets away from the unit during operation and maintenance.

Package Contents

Verify that all components are present in the package:

- Evaporator (Indoor Unit)
- Condenser (Outdoor Unit)
- Electric Scroll Compressor
- Accessories (various bolts, washers, nuts, rubber pads)
- Adhesive Tape
- Remote Control
- Refrigerant Pipe
- Drain Hose
- Expansion Valve



Image: All components included in the product package.

Setup and Installation

Follow these steps for proper installation of the air conditioning unit. Professional installation is recommended.

1. Install the External Machine:

Remove the casing of the external unit. Mark the drilling positions on the vehicle. Use an 8mm drill bit to create the holes. Use a riveting tool to secure the rivet nuts at the drilling points. Install shock pads and sleeves at the holes of the external machine. Securely fix the external machine to the vehicle.



Image: External unit installation process.

2. Install the Expansion Valve:

Locate the position for the expansion valve on the evaporator. Remove any protective iron sheet. Fix the expansion valve to the evaporator. Ensure the two black screws align with the two corresponding holes for correct installation. Wrap the installed expansion valve with black cotton wrap.



Image: Expansion valve installation.

3. Install the Indoor Unit:

First, install a wooden board or suitable mounting surface to the interior wall of the vehicle. Then, mount the evaporator (indoor unit) onto this board.



Image: Indoor unit installation.

4. Install High & Low Pressure Pipelines:

Create a 50mm hole in the vehicle body for the pipes. Install the rubber cover with three holes into this opening. The thick pipe is the low-pressure line and connects to the compressor. The thin pipe is the high-pressure line and connects to the condenser. Connect the other ends of the high and low-pressure pipes to the corresponding holes on the expansion valve of the indoor unit. Use long black screws and iron sheets to clamp the aluminum joints and tighten the screws securely.



Image: Refrigerant pipeline connection.

5. Install the Connection Line, Drain Pipe, and Power Line:

Connect the electrical connection lines between the internal and external units. Plug the power cord plugs into each other. Connect the drain pipe from the evaporator to allow for condensate drainage.



Image: Electrical and drain pipe connections.

6. Vacuuming and Adding Refrigerant:

The system must be vacuumed for 15-20 minutes to remove air and moisture. After vacuuming, add R134a refrigerant, approximately 600g. The refrigerant amount can be adjusted based on pressure readings. Typically, after R134a injection, the low-pressure port should read 35psi, and the high-pressure port 140-180psi.



Image: Vacuuming and refrigerant charging process.

7. Connect the Power Cord to the Battery:

Connect the power cord directly to the vehicle's battery. Pay close attention to the positive (+) and negative (-) terminals to avoid reverse connection. Do not connect to any power-off switches or general power switches.



Image: Battery connection for power supply.

8. Test the Air Conditioner:

After completing all installation steps, start the air conditioner to verify its functionality. Observe the control panel for any error codes.

Image: Final testing of the air conditioner.

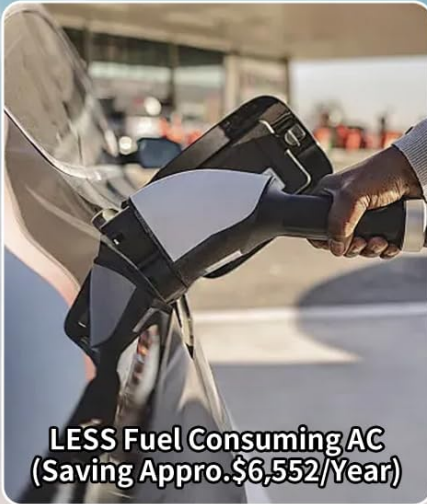
Operating Instructions

The Treeligo 12V Mini Split Air Conditioner can be operated via its LCD control panel or the included remote control.

- **Power On/Off:** Use the power button on the control panel or remote to turn the unit on or off.
- **Mode Selection:** Select from three operating modes: *Sleeping*, *Standard*, and *Strong*. These modes adjust cooling intensity and power consumption.
- **Temperature Adjustment:** Use the temperature controls on the panel or remote to set your desired cooling level.
- **Airflow Direction:** The indoor unit features 360° adjustable air vents to direct airflow as needed.
- **Battery Life:** The unit can operate for approximately 8 hours on a 480 AH battery in Strong mode, or 8 hours on a 200 AH battery in Standard or Sleeping mode.



Image: LCD Control Panel, 360° Air Cooling, and Remote Control features.



LESS Fuel Consuming AC
(Saving Appro. \$6,552/Year)



No More Stink in the Cabin



No Need to be Sweating in the Cabin during Summer

PARKING AIR CONDITIONER



Image: The indoor unit installed in a vehicle, demonstrating airflow.

Maintenance

Regular maintenance ensures optimal performance and longevity of your air conditioner. Always disconnect power before performing any maintenance.

- **Filter Cleaning:** Regularly clean or replace the air filters in the indoor unit to maintain airflow and cooling efficiency.
- **Coil Cleaning:** Periodically inspect and clean the evaporator and condenser coils. Dust and debris can reduce efficiency.
- **Drainage Check:** Ensure the drain hose is clear and free of obstructions to prevent water buildup.
- **Refrigerant Level:** If you notice a decrease in cooling performance, have a qualified technician check the refrigerant levels.
- **General Inspection:** Check all electrical connections and mounting hardware for tightness and signs of wear.



Image: Outdoor unit components, indicating areas for inspection and cleaning.

Troubleshooting

If you encounter issues with your air conditioner, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	No power, loose connection, battery issue	Check battery connections, ensure sufficient battery charge. Verify all power cables are securely connected.
Insufficient cooling	Low refrigerant, dirty filters/coils, blocked airflow	Check refrigerant levels (professional service recommended). Clean air filters and coils. Ensure no obstructions to airflow.
Control panel displays an error code	Insufficient current, incorrect refrigerant level (too much or too little)	Check battery voltage and current supply. Verify refrigerant charge (professional service required). Consult the service center if the issue persists.
Unusual noise during operation	Loose components, fan obstruction	Inspect for any loose parts or debris obstructing the fan. If noise persists, contact support.

For issues not listed here or if solutions do not resolve the problem, please contact Treeligo customer support.

Specifications

Detailed technical specifications for the Treeligo 12V Mini Split Air Conditioner:

Feature	Specification
Brand	Treeligo
Model Number	EAC001.32.R
Item Weight	57 pounds
Product Dimensions (Indoor Unit)	18"W x 11"H x 6"D
Product Dimensions (Outdoor Unit)	28"W x 16"H x 7"D (Approximate, derived from A+ content)
Cooling Capacity	8500 BTU (2100W)
Rated Power	720W
Voltage	12 Volts (DC)
Noise Level	45 Decibels
Installation Type	Split System
Refrigerant	R-134A (550-650g)
Compressor Type	Variable Frequency Scroll Compressor
Material Type	ABS
Special Features	Fast Cooling, Remote Control, Panel Control



Image: Noise level comparison, highlighting the unit's quiet operation at 45dB.

Warranty and Support

Treeligo is committed to providing reliable products and customer satisfaction.

- **Customer Service:** For any assistance with installation, operation, or troubleshooting, please contact Treeligo customer service. We aim to provide swift and prompt support within 12 hours.
- **Warranty Information:** Specific warranty details may vary. Please refer to your purchase documentation or contact customer support for comprehensive warranty terms and conditions.