

Bailigo EAC001

Bailigo 12V DC Split Air Conditioner 7200 BTU

Model: EAC001

Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Bailigo 12V DC Split Air Conditioner. Please read this manual thoroughly before installation and use to ensure proper function and safety. This unit is designed for cooling vehicle cabins such as trucks, campers, buses, motorhomes, and trailers.

2. SAFETY INFORMATION

- Ensure the power supply matches the unit's specifications (12V DC).
- Disconnect power before performing any maintenance or installation.
- Installation and refrigerant charging should be performed by qualified personnel.
- Do not block air inlets or outlets.
- Keep the unit away from flammable materials.
- Regularly inspect electrical connections for damage.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- AC Outdoor Unit
- AC Internal Unit
- Installation Hardware (screws, brackets, etc.)
- Remote Control
- Connecting Pipes (high and low pressure)

- Power Cables
- Drainage Pipe
- Insulation Tape



Image: Overview of the Bailigo 12V DC Split Air Conditioner components included in the package.

4. SETUP & INSTALLATION

The installation process involves mounting both the internal and external units, connecting the refrigerant pipes, electrical wiring, and charging the refrigerant. Professional installation is recommended.

4.1. External Unit Installation

1. Select an appropriate installation position on the exterior of the vehicle, ensuring sufficient clearance for airflow and maintenance.
2. Mark the drilling points for mounting the external unit.
3. Drill holes at the marked positions.
4. Install pull rivet nuts into the drilled holes for secure mounting.
5. Attach damping pads and sleeves to the external unit's mounting points.
6. Mount the external unit securely to the vehicle using appropriate fasteners.

4.2. Internal Unit Installation

1. Select a suitable location inside the cabin for the internal unit, ensuring proper air distribution.
2. Fix the internal machine mounting plate to the chosen location.
3. Install the internal unit onto the mounting plate.
4. Install the expansion valve onto the internal unit.

4.3. Connecting Pipes and Wiring

1. Open a 50mm connection hole between the internal and external units for pipes and wires.
2. Connect the 5/8 inch low-pressure pipe to the compressor on the external unit.
3. Connect the 3/8 inch high-pressure pipe to the condenser on the external unit.
4. Pass the pipes and wires through the connection hole and fix the rubber sleeve for protection.
5. Connect the internal and external pipes to the evaporation box of the internal unit.
6. Connect the internal and external machine wires and the power cord.
7. Install the drainage pipe from the internal unit.
8. Secure all connecting pipes and wires with winding tape.

Your browser does not support the video tag.

Video: Detailed installation instructions for the Bailigo Mini Split Air Conditioner.

4.4. Refrigerant Charging (R134a)

This step requires specialized tools and knowledge. It is highly recommended to have a certified technician perform refrigerant charging.

1. Connect the refrigerant filling gauge to the high and low pressure ports of the air conditioning system.

2. Connect the filling pipe to a vacuum pump.
3. Vacuum the system for 15-20 minutes to remove all air and moisture.
4. Connect the filling pipe to the refrigerant bottle opener and pierce the R134a refrigerant bottle (650g-700g).
5. Exhaust air from the refrigerant filling gauge drain valve.
6. Open the valve of the refrigerant filling gauge to allow refrigerant into the system.
7. If the system cannot be fully charged, connect the power supply to the unit and turn on the air conditioning cooling function.
8. Continue adding refrigerant until the pressure gauges indicate optimal levels. Remember to turn off the high-pressure valve to prevent the refrigerant bottle from exploding.
9. After charging, unplug the high and low pressure connectors of the refrigerant filling meter and install the outer shell.

Your browser does not support the video tag.

Video: Guide on how to charge the Bailigo Truck AC with R134a refrigerant.

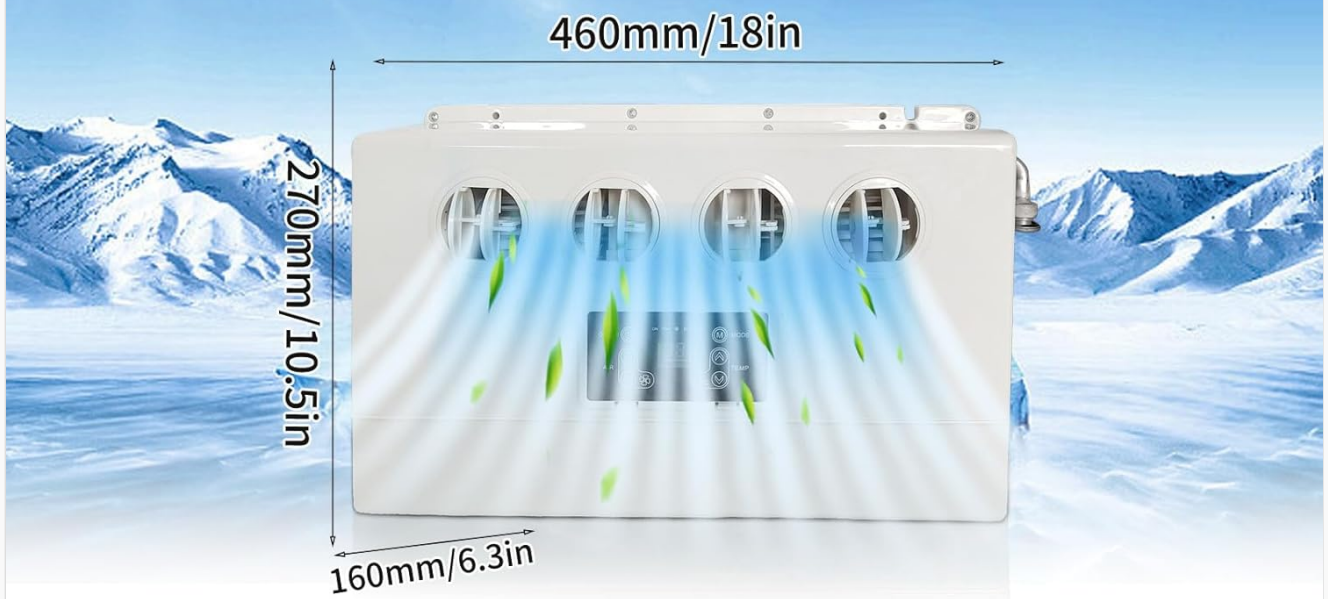
5. OPERATION

The Bailigo 12V DC Split Air Conditioner features an intelligent control panel and remote control for ease of use.

5.1. Control Panel

The internal unit features a control panel with a display and buttons for power, temperature adjustment, mode selection, and fan speed.

FAST COOLING & 360° ADJUSTABLE AIRFLOW



EVAPORATOR CONTROL PANEL,
TEMPERATURE DISPLAY



360°ADJUSTABLE
AIR OUTLET



EASY REMOTE
CONTROL

Image: Evaporator control panel, temperature display, 360° adjustable air outlets, and remote control.

5.2. Basic Functions

- **Power On/Off:** Press the power button on the control panel or remote control.
- **Temperature Adjustment:** Use the '+' and '-' buttons to set your desired temperature. The unit features rapid cooling, capable of regulating interior temperature quickly.
- **Mode Selection:** Cycle through available modes (e.g., cooling, fan) using the mode button.
- **Fan Speed:** Adjust fan speed for optimal comfort and noise levels. The unit operates below 55dB, with low speed at approximately 40dB.
- **Airflow:** The unit features 360° adjustable air outlets for directing airflow.

5.3. Low Voltage Protection

The unit is equipped with low voltage protection. If the voltage drops below 9V, the air conditioner will automatically cut off power to protect the battery and ensure the vehicle can start normally. It also includes over-voltage and over-current protection.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your air conditioner.

- **Filter Cleaning:** Regularly clean the air filters of the internal unit to maintain airflow and cooling efficiency.
- **External Unit Inspection:** Periodically check the external unit for any debris, dirt, or obstructions that might hinder airflow. Clean as necessary.
- **Refrigerant Level Check:** If you notice a decrease in cooling performance, the refrigerant level may be low. Consult a qualified technician for inspection and recharging (refer to Section 4.4 for charging details).
- **Electrical Connections:** Ensure all electrical connections are secure and free from corrosion.

7. TROUBLESHOOTING

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

- **Unit not turning on:** Check power connections to the battery and ensure the vehicle's battery voltage is sufficient (above 9V). Verify the power cord is securely connected.
- **Poor cooling performance:** Ensure air filters are clean and not obstructed. Check if the external unit's condenser is clean. Verify refrigerant levels (professional check recommended).
- **Unusual noises:** Inspect both units for loose components or obstructions. If the noise persists, contact customer support.
- **Water leakage from internal unit:** Check if the drainage pipe is properly installed and not blocked.

For persistent issues, contact Bailigo customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	Bailigo
Model	EAC001
Item Model Number	EAC001
Manufacturer Part Number	BL-EAC001.32.12.R-Z2US
Cooling Power	7200 British Thermal Units (BTU)
Voltage	12 Volts (DC)
Wattage	720 watts
Rated Current	30-60A
Voltage Protection	9-11.8V
Noise Level	50 Decibels (dB)
Item Weight	42 pounds
Product Dimensions	6.7 x 16 x 20 inches (External Unit)
Refrigerant	R134a (Not Included)

Feature	Specification
Special Features	Fast Cooling, Inverter Compressor, Remote Controlled
Color	Red

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Bailigo website. Keep your purchase receipt for warranty claims.

10. CONTACT INFORMATION

For further assistance or inquiries, please contact Bailigo customer service through the following channels:

- **Online:** Visit the [Bailigo Store on Amazon](#)
- **Email:** Refer to your product packaging for specific email contact.