

## TURBRO Greenland-9K230

# TURBRO Greenland Series 9,000 BTU Ductless Mini Split Inverter AC with Heat Pump User Manual

Model: Greenland-9K230

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your TURBRO Greenland Series 9,000 BTU Ductless Mini Split Inverter AC with Heat Pump, model Greenland-9K230. Please read this manual thoroughly before installation and use to ensure proper function and safety. Keep this manual for future reference.



Image 1.1: Overview of the TURBRO Greenland Series Mini Split AC system, including the indoor unit, outdoor unit, remote control, and a representation of the smartphone application for control.

## 2. SAFETY INFORMATION

Always adhere to basic safety precautions to reduce the risk of fire, electric shock, or injury. This appliance uses refrigerant R454B, which requires specific handling procedures. Installation and servicing should only be performed by qualified personnel.

- **Electrical Safety:** Ensure the unit is connected to a dedicated 230V, 20 amp circuit with an appropriate outdoor disconnect switch, as per local electrical codes.
- **Refrigerant Handling:** The system contains R454B refrigerant. Only certified technicians should handle refrigerant lines and charging. Improper handling can lead to leaks or system damage.
- **Professional Installation:** While a step-by-step guide is provided, professional installation is recommended to ensure optimal performance and compliance with safety standards.
- **Shipping Note:** The complete system may arrive in two separate boxes, potentially at different times. Verify all packages upon delivery before scheduling installation.

## 3. PRODUCT OVERVIEW

### 3.1 Components Included

The TURBRO Greenland Mini Split AC system is shipped in two boxes. Please ensure all components are present before proceeding with installation.



Image 3.1: Detailed breakdown of components included in the two shipping boxes. Note that the 9,000 BTU model does not include a guide plate.

### 3.2 Key Features

- **Inverter Technology with Heat Pump:** Provides efficient cooling and heating across a wide range of ambient temperatures, from 131°F in cooling mode to -13°F in heating mode.
- **Fast Operation:** Achieves rapid cooling in approximately 30 seconds and heating in about 60 seconds.
- **High Energy Efficiency:** Features a 24 SEER2 rating, qualifying for federal tax credits and contributing to lower electricity bills.
- **Wide Air Distribution:** Designed for long-distance air blowing, effectively cooling or heating areas up to 450 sq. ft.
- **Quiet Operation:** Operates with a minimum noise level of 27 decibels.
- **WiFi Enabled:** Allows for smart control via a dedicated smartphone application.
- **Self-Cleaning Function:** Incorporates a 133°F high-temperature self-cleaning feature for improved air quality and maintenance.

# Inverter System with Heat Pump

Strong Performance Under Extreme Weather

131°F

Ambient Temp  
Cooling

-13°F

Ambient Temp  
Heating

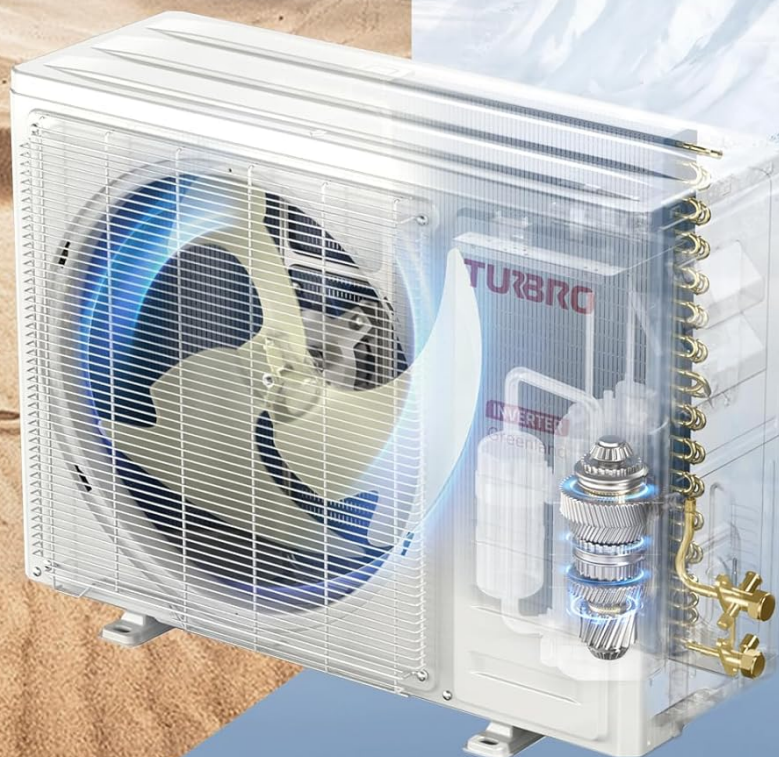


Image 3.2: The inverter system's capability to provide cooling at high ambient temperatures (131°F) and heating at low ambient temperatures (-13°F).



# **TURBRO** Greenland Mini Split AC



9,000 BTU Cooling



23.5 SEER2, 230V



Up to 450 Sq. Ft.



30s Fast Cool



60s Fast Heat



Up to 382 CFM

Image 3.3: Summary of the unit's cooling capacity, energy efficiency, voltage, coverage area, and rapid cooling/heating times.

# Outstanding SEER2 Rating

Higher Energy Efficiency

Lower Electricity Bill

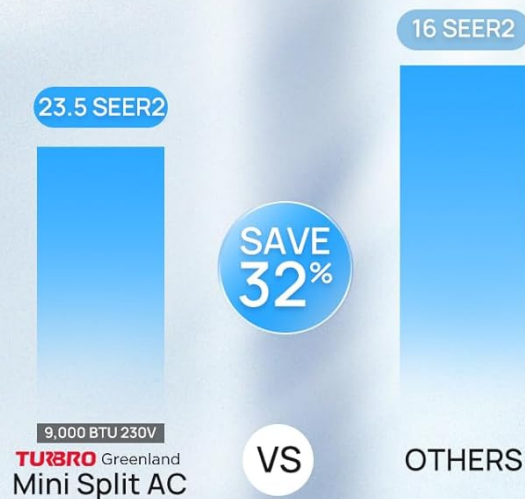


Image 3.4: Illustration of the energy efficiency benefits of the 23.5 SEER2 rating compared to lower SEER2 units.



Image 3.5: Visual representation of the unit's quiet operation and effective air distribution.

## 4. SETUP AND INSTALLATION

The TURBRO Greenland Mini Split AC comes with a step-by-step installation guide and a numbered wiring diagram. However, due to the complexity of refrigerant handling and electrical connections, professional installation is strongly recommended.

### 4.1 Pre-Installation Checks

- Verify that all components from both shipping boxes have been received.
- Ensure the installation location has a dedicated 20 amp, 240V electrical circuit and an accessible outdoor disconnect switch.
- Confirm that necessary tools are available, including a vacuum pump, gauge set for evacuating the line set, a 2 7/8-inch hole saw for wall penetration, and a long 1/4-inch drill bit for pilot holes.

### 4.2 Installation Steps (Summary)

1. Mount the indoor unit using the provided mounting plate. Ensure adequate clearance (more than 8 inches from the ceiling).
2. Drill the necessary hole through the wall for the refrigerant lines, drain hose, and electrical cables.
3. Install the outdoor unit on a stable surface or wall mount, ensuring proper drainage and ventilation.
4. Connect the refrigerant lines between the indoor and outdoor units. This step requires specialized tools and expertise to prevent refrigerant leaks and ensure system integrity.
5. Connect the electrical wiring according to the numbered wiring diagram.
6. Evacuate the refrigerant lines using a vacuum pump to remove air and moisture.
7. Release the refrigerant into the system.
8. Check for leaks and perform a test run of the unit.

Refer to the detailed installation guide included with your product for comprehensive instructions and safety warnings.

## 5. OPERATING INSTRUCTIONS

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Your TURBRO Greenland Mini Split AC offers multiple operating modes and control options for optimal comfort.

### 5.1 Operating Modes

- **Cool Mode:** Provides cooling to lower the room temperature.
- **Heat Mode:** Provides heating to raise the room temperature.
- **Dehumidify Mode:** Reduces humidity in the air without significant cooling.
- **Fan Mode:** Circulates air without heating or cooling, offering 8 fan speeds.



Image 5.1: Visual representation of the four primary operating modes.

### 5.2 Control Options

- **Remote Control:** Use the included wireless remote control to adjust settings, change modes, and set temperatures.
- **WiFi App Control:** Download the TURBRO smartphone application to control the unit remotely, monitor status, and schedule operations.
- **Voice Control:** The unit is compatible with smart home systems like Google Home and Amazon Alexa, allowing for voice commands.





Image 5.2: Overview of the various methods to control your mini split AC unit.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your mini split AC unit.

### 6.1 Self-Cleaning Function

The unit features a 133°F high-temperature self-cleaning function. Activate this function periodically to clean the indoor coil and reduce the buildup of dust and mold, improving air quality and efficiency. Refer to your remote control or app instructions for activating this feature.



Image 6.1: The self-cleaning process using high temperature to maintain hygiene of the indoor unit.

### 6.2 General Cleaning

- **Air Filters:** Clean the air filters of the indoor unit regularly (e.g., every 2-4 weeks, depending on usage) to maintain airflow and efficiency. Wash with mild soap and water, then dry completely before reinserting.
- **Indoor Unit Exterior:** Wipe the exterior of the indoor unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Outdoor Unit:** Periodically clear any debris (leaves, dirt) from around the outdoor unit to ensure proper airflow to the condenser coil. For deeper cleaning of the coil, professional service is recommended.

## 7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For more complex problems, contact customer support or a qualified technician.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; circuit breaker tripped; remote control batteries low.	Check power connection and circuit breaker. Replace remote control batteries.

Problem	Possible Cause	Solution
Insufficient cooling/heating	Dirty air filters; blocked outdoor unit; incorrect mode/temperature setting; refrigerant leak.	Clean air filters. Clear obstructions from outdoor unit. Verify settings. Contact technician for refrigerant issues.
Unusual noise	Loose parts; fan obstruction; normal operating sounds (e.g., refrigerant flow).	Check for loose components or obstructions. If noise persists or is abnormal, contact support.
WiFi connection issues	Router issues; incorrect WiFi password; unit not in pairing mode.	Restart router. Re-enter WiFi password. Follow app instructions for pairing mode.

## 8. SPECIFICATIONS

Detailed technical specifications for the TURBRO Greenland Series 9,000 BTU Ductless Mini Split Inverter AC with Heat Pump.



Image 8.1: Dimensions of the indoor and outdoor units for planning installation space.

Specification	Value
Brand	TURBRO
Model Number	Greenland-9K230
Cooling Power	9,000 British Thermal Units (BTU)
Coverage Area	Up to 450 Square Feet
Seasonal Energy Efficiency Ratio (SEER2)	24
Energy Star Certified	Yes
Voltage	230 Volts
Wattage	710 Watts
Noise Level	27 Decibels (minimum)
Refrigerant Type	R454B
Indoor Unit Dimensions (D x W x H)	7.7" x 32.3" x 12.1"
Outdoor Unit Dimensions (D x W x H)	28.8" x 34.7" x 24.8" (Note: Product dimensions listed in specifications are 28.8 x 34.7 x 24.8 inches, while image 8.1 shows 28.7 x 21.7 x 12.0 inches for outdoor unit. Please refer to the product packaging for exact dimensions.)
Item Weight	25 pounds (indoor unit)
Special Features	Fast Cooling, Heating & Cooling Function, WiFi Enabled, Self-Cleaning


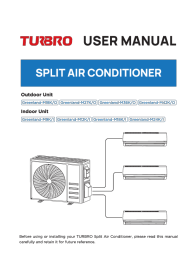
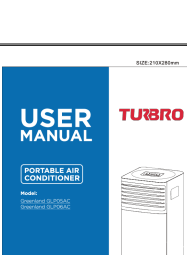
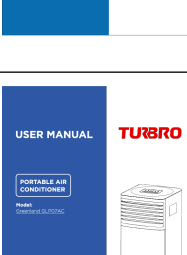

## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official TURBRO website. For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact TURBRO customer support.

**Customer Support:** Refer to the contact information provided in your product packaging or on the TURBRO official website.



Related Documents - Greenland-9K230

 <p>The cover of the TURBRO Split Air Conditioner User Manual is blue and white. It features the TURBRO logo at the top right. The title 'USER MANUAL' is prominently displayed in white on a blue background. Below it, 'SPLIT AIR CONDITIONER' is written in a smaller font. A list of models is provided: Greenland-9K115, Greenland-9K125, Greenland-9K135, Greenland-9K230, Greenland-9K235, and Greenland-9K235. A small image of the indoor unit is shown on the right side.</p>	<p><a href="#">TURBRO Split Air Conditioner User Manual - Installation &amp; Operation Guide</a></p> <p>This user manual provides comprehensive instructions for TURBRO Split Air Conditioners, including models like Greenland-9K115 and Greenland-24K230. It covers essential safety information, installation procedures, operating modes, maintenance, troubleshooting, and warranty details, with specific attention to R454B refrigerant handling.</p>
 <p>The cover of the TURBRO Split Air Conditioner User Manual: Installation, Operation &amp; Safety Guide is white with a blue header. It features the TURBRO logo and the title 'USER MANUAL' in blue. Below the title, 'SPLIT AIR CONDITIONER' is written in a smaller font. A diagram of the outdoor and indoor units is shown. The text 'Outdoor Unit' and 'Indoor Unit' are present, along with their respective model numbers: (Greenland-9K115, Greenland-9K125, Greenland-9K135, Greenland-9K230, Greenland-9K235) and (Greenland-9K115, Greenland-9K125, Greenland-9K135, Greenland-9K230, Greenland-9K235). A small image of the outdoor unit is shown on the left side.</p>	<p><a href="#">TURBRO Split Air Conditioner User Manual: Installation, Operation &amp; Safety Guide</a></p> <p>Official user manual for TURBRO Split Air Conditioners. Learn about installation, operation modes, safety precautions, maintenance, troubleshooting, and warranty for models like the Greenland series.</p>
 <p>The cover of the TURBRO GLP05AC GLP06AC Portable Air Conditioner User Manual is blue and white. It features the TURBRO logo at the top right. The title 'USER MANUAL' is prominently displayed in white on a blue background. Below it, 'PORTABLE AIR CONDITIONER' is written in a smaller font. A list of models is provided: Greenland-GLP05AC and Greenland-GLP06AC. A small image of the portable air conditioner is shown on the right side.</p>	<p><a href="#">TURBRO GLP05AC GLP06AC Portable Air Conditioner User Manual</a></p> <p>User manual for the TURBRO GLP05AC and GLP06AC portable air conditioners. Includes setup, operation, maintenance, and troubleshooting guides for optimal performance.</p>
 <p>The cover of the TURBRO Portable Air Conditioner User Manual - Greenland GLP07AC is blue and white. It features the TURBRO logo at the top right. The title 'USER MANUAL' is prominently displayed in white on a blue background. Below it, 'PORTABLE AIR CONDITIONER' is written in a smaller font. A list of models is provided: Greenland-GLP07AC. A small image of the portable air conditioner is shown on the right side.</p>	<p><a href="#">TURBRO Portable Air Conditioner User Manual - Greenland GLP07AC</a></p> <p>Comprehensive user manual for the TURBRO Portable Air Conditioner, Model Greenland GLP07AC. Includes setup, operation, maintenance, troubleshooting, and warranty information.</p>
 <p>The cover of the TURBRO GLS04 Greenland Humidifier User Manual is black and white. It features the TURBRO logo at the top right. The title 'USER MANUAL' is prominently displayed in white on a black background. Below it, 'GREENLAND HUMIDIFIER' is written in a smaller font. A list of models is provided: Greenland-GLS04. A small image of the humidifier is shown on the right side.</p>	<p><a href="#">TURBRO GLS04 Greenland Humidifier User Manual</a></p> <p>Comprehensive user manual for the TURBRO GLS04 Greenland Humidifier, covering safety, components, specifications, operation, maintenance, troubleshooting, and warranty information.</p>





### [TURBRO GL150P Dehumidifier User Manual](#)

Comprehensive user manual for the TURBRO GL150P dehumidifier, covering safety instructions, parts description, specifications, operation, cleaning, storage, troubleshooting, and warranty information.