

TURBRO GL12K230

TURBRO Greenland Series 12,000 BTU Ductless Mini Split AC with Heat Pump

MODEL: GL12K230 USER MANUAL

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your TURBRO Greenland Series 12,000 BTU Ductless Mini Split AC with Heat Pump, Model GL12K230. Please read this manual thoroughly before using the appliance and retain it for future reference.



Image 1.1: Overview of the TURBRO Greenland Mini Split AC system, including the indoor air handler, outdoor condenser, remote control, and a smartphone displaying the control app.

2. Safety Information

Always follow basic safety precautions to reduce the risk of fire, electric shock, or injury. This appliance is designed for residential use. Professional installation is recommended for optimal performance and safety.

- Ensure the power supply matches the unit's specifications (230V).
- Do not operate the unit with wet hands.
- Keep children and pets away from the outdoor unit.
- Do not block air inlets or outlets.
- Refer all servicing to qualified service personnel.

3. Package Contents

The TURBRO Greenland Mini Split AC system is typically shipped in two separate boxes, which may arrive at different times. Verify all components are present upon delivery.



Image 3.1: Detailed illustration of all components included in the TURBRO Mini Split AC package, divided into two boxes for shipping. Box One contains the indoor unit, user manual, signal cable, remote, drain joint, remote holder, screws, mounting plate, rubber feet, guide plate, and drain hose. Box Two contains the outdoor unit, refrigerant pipe, wall sleeve, insulation tape, and sealing gum.

Box One Contents:

- Indoor Unit
- User Manual
- Signal Cable
- Remote & AAA Battery
- Drain Joint
- Remote Control Holder
- Screws
- Mounting Plate
- Rubber Feet
- Guide Plate
- Drain Hose

Box Two Contents:

- Outdoor Unit
- Refrigerant Pipe (16.4 ft.)
- Wall Sleeve
- Insulation Tape
- Sealing Gum

4. Setup and Installation

The TURBRO Greenland mini split AC includes a step-by-step installation guide and a numbered wiring diagram to assist with installation. While DIY installation is possible, professional installation is recommended to ensure optimal performance and adherence to local codes.

4.1 Unit Placement and Dimensions

Proper placement of both indoor and outdoor units is crucial for efficient operation. Ensure adequate clearance around both units for airflow and maintenance.



Image 4.1: Dimensions of the indoor unit (36.2" x 12.1" x 7.7") and the outdoor unit (28.7" x 12.0" x 21.7"). An indoor unit clearance of more than 8 inches from the ceiling is recommended.

4.2 Refrigerant Information

The unit utilizes R454B refrigerant, which offers improved environmental performance compared to older refrigerants like R410A and R32, with lower global warming potential and reduced charge requirements.



Image 4.2: Comparison of refrigerants, showing R454B with significantly lower Global Warming Potential and reduced refrigerant charge compared to R410A and R32.

5. Operating Instructions

The TURBRO Greenland Mini Split AC offers powerful heating and cooling capabilities, designed for efficient climate control in spaces up to 750 sq. ft.

TURBRO Greenland Mini Split AC



12,000 BTU Cooling



23 SEER2, 230V



Up to 750 Sq. Ft.



30s Fast Cool



60s Fast Heat



Up to 471 CFM

Image 5.1: Key performance indicators for the TURBRO Greenland Mini Split AC, including 12,000 BTU cooling capacity, 23 SEER2 rating, 30-second fast cooling, 60-second fast heating, coverage up to 750 sq. ft., and airflow up to 471 CFM.

5.1 Operating Modes

The unit features multiple operating modes to suit various climate control needs:

133°F High Temp
Self-cleaning



Image 5.2: Visual representation of the four primary operating modes: Cool, Heat, Dehumidify, and Fan, with 8 fan speeds available.

- **Cool Mode:** Provides rapid cooling, capable of reaching desired temperatures quickly. Operates effectively in ambient temperatures up to 131°F.
- **Heat Mode:** Functions as a heat pump, providing efficient heating even in cold conditions, down to -13°F ambient temperature.
- **Dehumidify Mode:** Reduces humidity levels in the room for increased comfort.
- **Fan Mode:** Circulates air without heating or cooling, offering 8 fan speeds.

Inverter System with Heat Pump

Strong Performance Under Extreme Weather



Image 5.3: Illustration of the inverter system's strong performance under extreme weather, indicating cooling capability at 131°F and heating capability at -13°F ambient temperatures.

5.2 Control Methods

Control your TURBRO Greenland unit using multiple convenient methods:

Multifunctions Cool, Heat, Dehumidify, Fan



❄️ Cool



☀️ Heat



💧 Dehumidify



🌀 Fan

Image 5.4: Demonstrates the multiple control options: a dedicated remote control, a smartphone application, and voice control compatibility with Amazon Alexa and Google Assistant.

- **Remote Control:** The included remote allows direct adjustment of temperature, mode, fan speed, and other settings.
- **Smartphone App:** Connect your unit to the dedicated smartphone app for remote control and scheduling features.
- **Voice Control:** Integrate with Amazon Alexa or Google Assistant for hands-free operation.

5.3 Energy Efficiency and Quiet Operation

The unit features a 24 SEER2 rating, indicating high energy efficiency and potential for lower electricity bills. Its design also prioritizes quiet operation and effective air distribution.

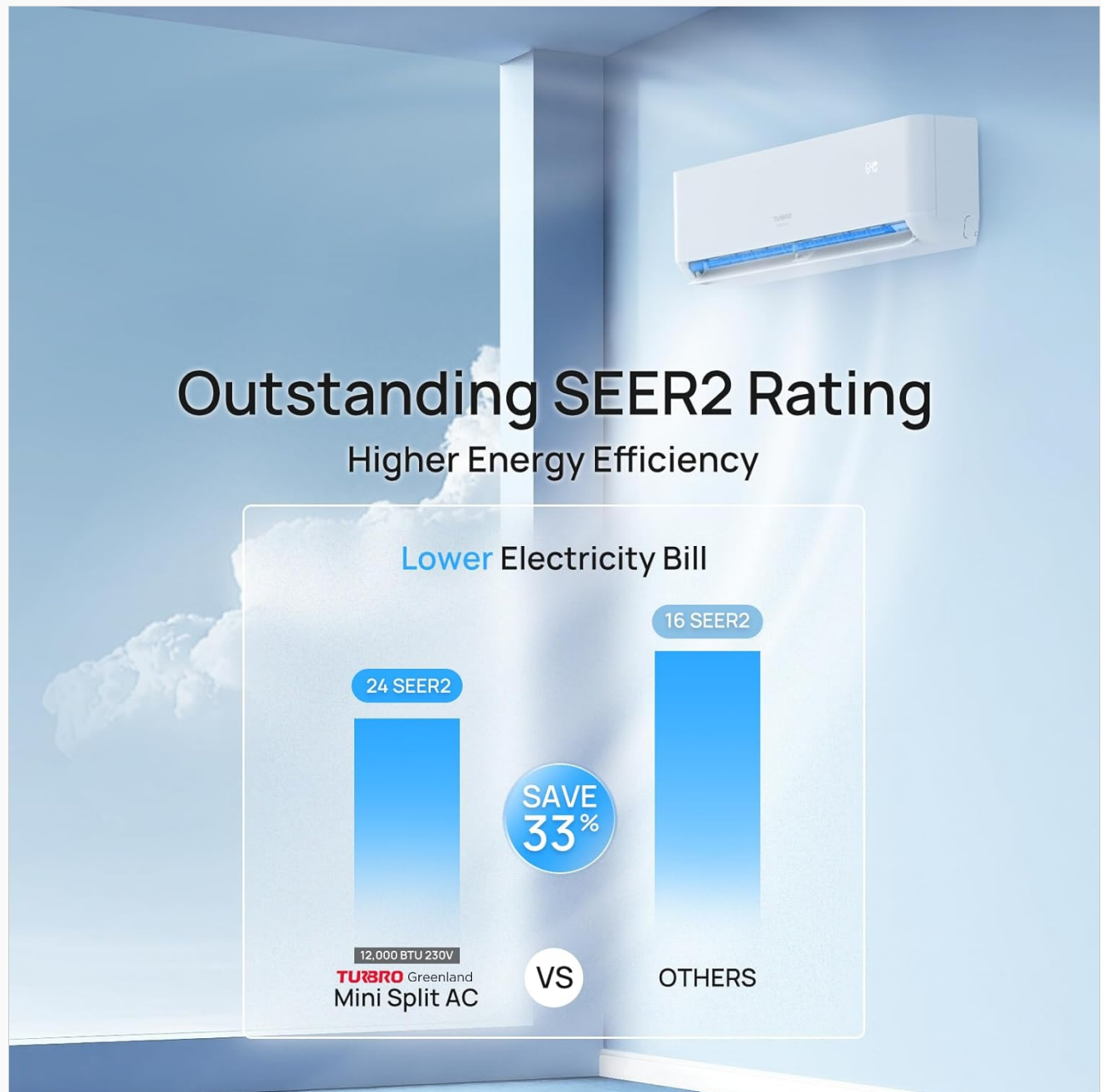


Image 5.5: Comparison illustrating the energy efficiency of the TURBRO Greenland Mini Split AC with a 24 SEER2 rating, demonstrating a 33% electricity saving compared to units with a 16 SEER2 rating.



Image 5.6: Depicts the quiet operation of the unit with a minimum noise level of 27 dB and its ability to provide long-distance airflow up to 23 feet, contributing to comfortable sleep.

6. Maintenance

Regular maintenance ensures the longevity and efficiency of your mini split system.

6.1 Self-Cleaning Function

The TURBRO Greenland unit includes a 133°F high-temperature self-cleaning function to help maintain internal hygiene and efficiency.

Every Set May Arrive in 2 Separate Boxes and May Be Delivered at Different Times.



Image 6.1: Illustration of the indoor unit's self-cleaning feature, which uses high temperatures (133°F) to sterilize and clean internal components.

6.2 General Cleaning

- **Air Filters:** Clean or replace air filters regularly (monthly or as needed) to ensure optimal airflow and air quality.
- **Indoor Unit:** Wipe the exterior of the indoor unit with a soft, damp cloth. Do not use harsh chemicals.
- **Outdoor Unit:** Keep the outdoor unit clear of debris, leaves, and other obstructions. Periodically rinse the coils with water, ensuring no water enters electrical components.

7. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, contact customer support.

Problem	Possible Cause	Solution
Unit does not turn on	No power, circuit breaker tripped, remote batteries dead	Check power supply, reset breaker, replace remote batteries
Poor cooling/heating performance	Dirty air filters, blocked outdoor unit, incorrect mode setting, low refrigerant	Clean filters, clear obstructions, select correct mode, contact professional for refrigerant check
Unusual noise	Loose parts, foreign objects, fan imbalance	Inspect unit for loose components or objects, contact service if noise persists
Error Code (e.g., F7)	System malfunction, sensor issue	Refer to the detailed troubleshooting section in the full user manual or contact customer support with the specific error code.

8. Specifications

Detailed technical specifications for the TURBRO Greenland Series 12,000 BTU Ductless Mini Split AC with Heat Pump, Model GL12K230.

Feature	Specification
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Feature	Specification
Brand	TURBRO
Model Number	GL12K230
Cooling Power	12,000 BTU
Heating Capacity	Heat Pump Functionality
SEER2 Rating	24.00
Voltage	230 Volts (AC)
Wattage	920 watts
Coverage Area	Up to 750 Square Feet
Noise Level	27 Decibels (Minimum)
Refrigerant Type	R454B (Transition from R410A/R32)
Special Features	Dehumidifier, Fast Cooling, Heating And Cooling Function, Remote Controlled, WiFi Enabled, Self-cleaning
Indoor Unit Dimensions (D x W x H)	14.96" x 38.98" x 34.25" (Note: Product dimensions from spec are for the package, using image for unit dimensions)
Outdoor Unit Dimensions (D x W x H)	28.7" x 12.0" x 21.7" (from image)
Item Weight	71.8 pounds

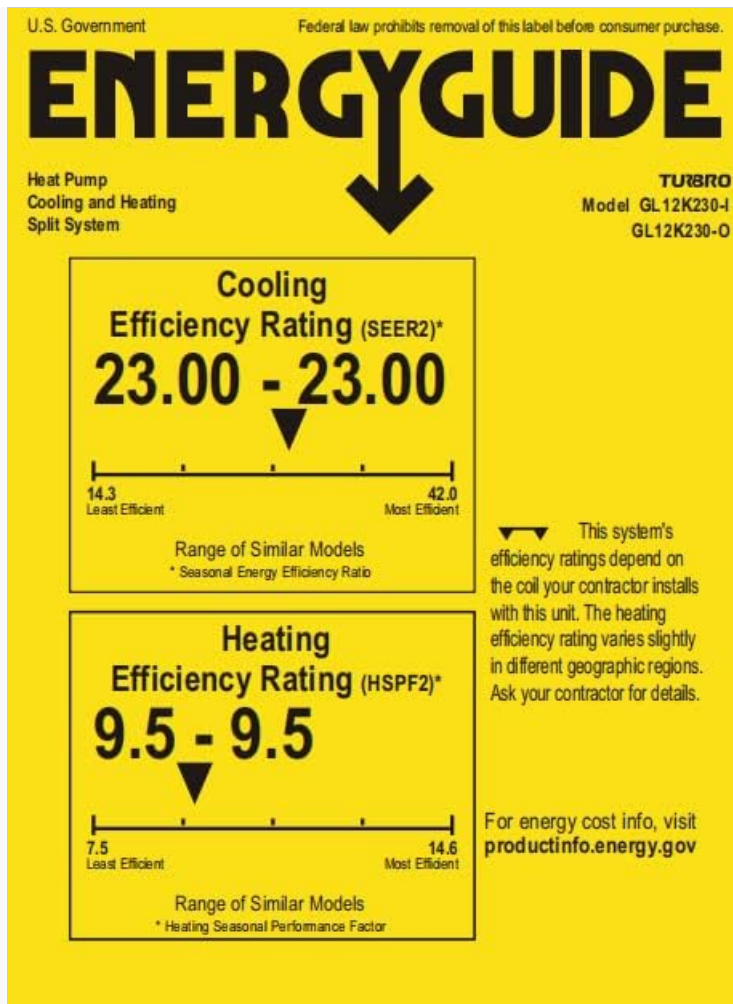


Image 8.1: EnergyGuide label for the TURBRO GL12K230, detailing its cooling (SEER2) and heating (HSPF2) efficiency ratings. For more energy cost information, visit productinfo.energy.gov.

9. Warranty Information

TURBRO provides a **5-year protection plan** covering both parts and compressors for the Greenland Series Mini Split AC systems. Please retain your proof of purchase for warranty claims.

10. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact TURBRO customer service. Refer to the contact information provided in your product packaging or visit the official TURBRO website.

Online Resources:

- Official TURBRO Website: [Visit the TURBRO Store on Amazon](#)