

TURBRO FM12K230

TURBRO Finnmark 12,000 BTU 230V Ductless Mini Split Inverter AC with Heat Pump User Manual

Model: FM12K230

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1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your TURBRO Finnmark 12,000 BTU Ductless Mini Split Inverter AC with Heat Pump. This system is designed to provide superior heating and cooling for spaces up to 750 sq.ft., adapting to extreme temperatures from 118°F for cooling down to 5°F for heating. It features energy-efficient inverter technology and uses eco-friendly R32 refrigerant.



Figure 1: TURBRO Finnmark Mini Split AC with Heat Pump components.



Figure 2: Key features of the TURBRO Finnmark Mini Split AC.

2. SAFETY INSTRUCTIONS

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage,

injury, or death. Read the installation and operating instructions thoroughly before installing or servicing this equipment.

- Always ensure the unit is properly grounded.
- Disconnect power before performing any maintenance or servicing.
- Do not block the air intake or outlet of either unit.
- For optimal performance and safety, professional installation is recommended.
- Use only the specified refrigerant (R32) and follow all local regulations for handling and disposal.

3. PRODUCT OVERVIEW

The TURBRO Finnmark Mini Split system consists of an indoor air handler and an outdoor condenser unit. It comes with all necessary components for installation and operation.

3.1 What's in the Box



Figure 3: Included components for the TURBRO Finnmark Mini Split AC.

Box One:

- User Manual
- Mounting Plate
- Guide Plate
- Remote & AAA Batteries
- Wall Anchors & Screws
- Drain Hose (6.6 ft.)
- Signal Cable (14.8 ft.)

Box Two:

- Refrigerant Pipe (13.1 ft.)
- Power Cable (8.2 ft.)
- Insulating Tape
- Sealing Gum
- Wall Sleeve

4. SETUP & INSTALLATION

The Finnmark mini-split AC is designed for simplified installation, featuring a detachable underjaw and guide plate on the indoor unit to facilitate one-person assembly. A step-by-step guide and wiring diagram are included in the user manual. However, for optimal performance and safety, **professional installation is strongly recommended**

4.1 Key Installation Considerations

- **Location:** Choose a location for both indoor and outdoor units that allows for proper airflow and drainage. Refer to the 'How To Choose Area' diagram for guidance on BTU requirements based on room size.
- **Electrical Connection:** Ensure the electrical supply meets the unit's requirements (230V for this model). All wiring must comply with local electrical codes.
- **Refrigerant Lines:** The system utilizes R32 refrigerant. Proper handling and connection of refrigerant lines are crucial to prevent leaks and ensure system efficiency.
- **Drainage:** Ensure the drain hose is properly installed with a downward slope to allow for continuous condensate drainage.



Figure 4: Simplified installation process with detachable underjaw.



Figure 5: Guide for selecting appropriate BTU capacity based on room area.

4.2 Installation Video

Video 1: Overview of the Mini Split Inverter AC with Heat Pump, including installation aspects. This video demonstrates the product and its features, providing visual context for installation.

5. OPERATING INSTRUCTIONS

The TURBRO Finnmark offers versatile control options for your convenience.

5.1 Control Options

- **Remote Control:** Use the included remote to adjust temperature, mode, fan speed, and other settings.
- **Smartphone App:** Connect your unit to WiFi and manage settings from anywhere using the dedicated smartphone app (compatible with Apple Store and Google Play).
- **Voice Commands:** The unit is WiFi-enabled and works with smart home assistants like Amazon Alexa and Google Home for convenient voice control.

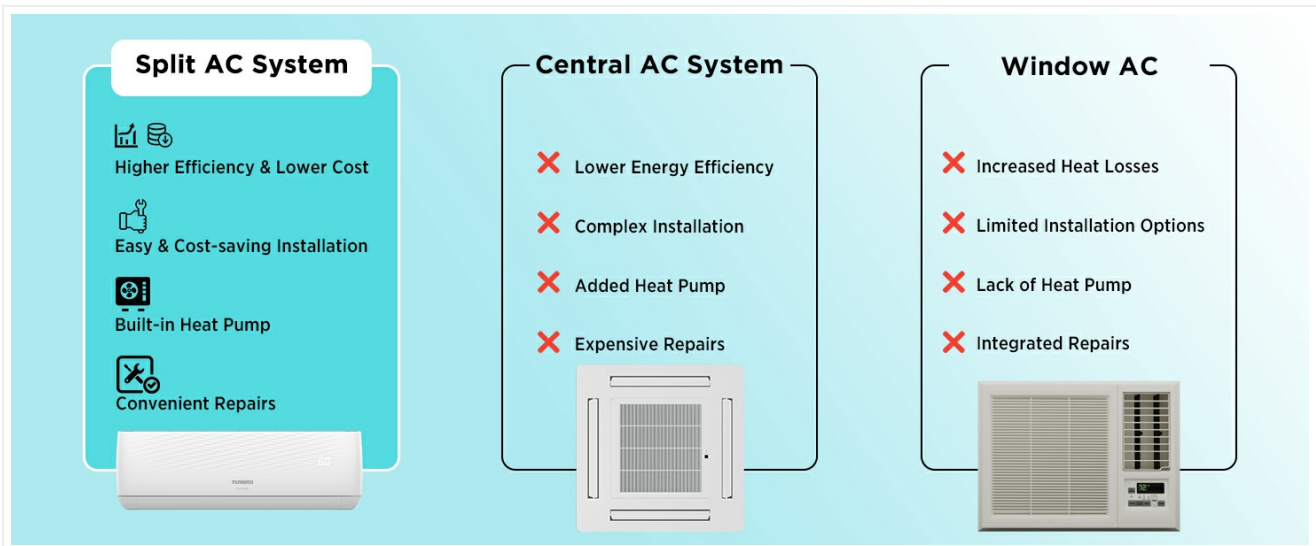


Figure 6: Multiple control options for your Finnmark AC.

5.2 Operating Modes

- **Cooling Mode:** Provides rapid cooling in as little as 30 seconds, effective in temperatures up to 118°F.
- **Heating Mode:** Delivers quick heating in a mere 60 seconds, functional in chilling temperatures as low as 5°F.
- **Dry Mode (Dehumidification):** Reduces humidity in the air.
- **Fan Mode:** Circulates air without heating or cooling.

5.3 Airflow Control

Benefit from Finnmark's deflectors, providing adjustable airflow up to 90° vertically and 50° horizontally. Enjoy efficient and comfortable airflow reaching up to 49ft. and 330CFM, ensuring every corner of your space is adequately ventilated.



Figure 7: Extended airflow capabilities for comprehensive room coverage.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your TURBRO Finnmark unit.

- **Indoor Unit Self-Cleaning:** The indoor unit is equipped with a self-cleaning function that utilizes high-temperature air to maintain cleanliness and optimal performance. Refer to your remote control or app for activating this feature.
- **Filter Cleaning:** Regularly clean the air filters to maintain air quality and unit efficiency. Follow the instructions in the full user manual for filter removal and cleaning.
- **Outdoor Unit Care:** The outdoor unit is coated with premium materials to prevent corrosion and rust, ensuring long-lasting performance. Periodically inspect the outdoor unit for debris and ensure clear airflow around it.



Figure 8: Corrosion-resistant outdoor unit for enhanced durability.

7. TROUBLESHOOTING

If you encounter issues with your unit, please refer to the comprehensive troubleshooting section in the full user manual. Common issues may include:

- Unit not turning on (check power supply, circuit breaker).
- Insufficient heating or cooling (check temperature settings, clean filters, ensure no obstructions).
- Unusual noises (refer to manual for normal operating sounds vs. potential issues).
- Error codes displayed (consult the manual for specific code meanings and solutions).

If problems persist, contact TURBRO customer support or a qualified HVAC technician.

8. SPECIFICATIONS

Feature	Detail
Brand	TURBRO
Model Info	FM12K230
Cooling Power	12,000 British Thermal Units
Seasonal Energy Efficiency Ratio (SEER2)	17
Voltage	230 Volts
Wattage	1900 watts
Capacity (Cools up to)	750 Square Feet
Noise Level	41 Decibels
Refrigerant Type	R32
Special Features	Auto Clean, Fast Cooling, Heating And Cooling Function, Inverter Compressor, WiFi Enabled
Product Dimensions	7.9"D x 31.18"W x 11.5"H
Item Weight	18.74 pounds



Figure 9: Dimensions of the indoor and outdoor units.

9. WARRANTY & SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official TURBRO website. For technical support, troubleshooting assistance, or parts inquiries, please contact TURBRO customer service.

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