

TURBRO FM12K115

TURBRO Finnmark Series 12,000 BTU Ductless Mini Split AC with Heat Pump (Model FM12K115) Instruction Manual

Your guide to installation, operation, and maintenance.

1. INTRODUCTION

Thank you for choosing the TURBRO Finnmark Series 12,000 BTU Ductless Mini Split AC with Heat Pump. This advanced system provides efficient heating and cooling for your space, featuring an Inverter Compressor, 20 SEER2 rating, and R32 refrigerant for environmental friendliness. It operates on 115V power and includes a pre-charged evaporator for easier setup. With WiFi-enabled functionality, you can control your unit conveniently via a dedicated app.

Please read this manual thoroughly before installation and operation to ensure safe and optimal performance of your unit. Keep this manual for future reference.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always disconnect power before servicing the unit.
- Ensure proper grounding to prevent electrical shock.
- Do not block air inlets or outlets of the unit.
- Keep flammable materials away from the unit.
- Professional installation is recommended for optimal performance and safety.

3. PACKAGE CONTENTS

Your TURBRO Finnmark Mini Split AC system includes the following components. Please verify all packages upon delivery to ensure all components are received before scheduling installation or starting the installation yourself.

- Indoor Unit (Evaporator)
- Outdoor Unit (Condenser with pre-charged R32 refrigerant)
- Remote Control
- User Manual
- Installation Kit (includes copper line set, communication wire, drainage hose, and insulation tape)

4. SPECIFICATIONS

Feature	Specification
Brand	TURBRO
Model Name	FM12K115
Cooling Power	12,000 British Thermal Units
Heating Capacity	12,000 BTU
Seasonal Energy Efficiency Ratio (SEER2)	20
Heating Seasonal Performance Factor (HSPF2)	8.7
Voltage	115 Volts
Refrigerant	R-32
Noise Level	41 Decibels
Product Dimensions (Indoor Unit)	7.9"D x 31.18"W x 11.5"H
Item Weight (Outdoor Unit)	88 Pounds
Special Feature	Inverter Compressor, WiFi-Enabled

5. SETUP AND INSTALLATION

The TURBRO Finnmark mini-split AC is designed for straightforward installation, though professional installation is recommended for optimal performance and safety. The indoor unit features a detachable underjaw and guide plate for easier one-person assembly.

5.1 Key Installation Steps:

1. **Mounting the Indoor Unit:** Use the provided mounting plate and follow the step-by-step guide and included wiring diagram to secure the indoor unit to the wall. Ensure proper clearance from the ceiling for optimal airflow.

2. **Drilling Wall Hole:** Create a hole through the wall for the copper lines, communication wire, and drainage hose.
3. **Connecting Refrigerant Lines:** Connect the pre-charged copper lines between the indoor and outdoor units. Ensure all connections are tight to prevent leaks.
4. **Electrical Connections:** Connect the communication wire and power cable according to the wiring diagram. For safety, ensure all electrical work complies with local codes.
5. **Vacuumping the System:** A vacuum pump is required to evacuate the system after connecting the line set. Run the vacuum pump for at least 15 minutes, then let it sit for 35 minutes to ensure no leaks.
6. **Opening Valves:** Fully open the high and low pressure valves on the outdoor unit to release the refrigerant into the system.
7. **Drainage Hose:** Ensure the drainage hose has a slight downward slope to allow for proper condensation drainage.
8. **Outdoor Unit Placement:** Place the outdoor unit on a stable pad or mount it to the wall using appropriate brackets.



Image: Indoor unit of the TURBRO Finmark Mini Split AC, showing its sleek design and front panel.



Image: A person installing the indoor unit, highlighting the removable underjaw for simplified one-person assembly.

R32 Refrigerant

- Environmental-friendly
- Energy Efficient

Global Warming Potential

Refrigerant	Global Warming Potential
R410A	100%
R32	70%*

Refrigerant Charge

Refrigerant	Refrigerant Charge
R410A	100%
R32	10%-20%*

*Data from UNEP's RTOC 2022 Report

Image: Outdoor unit of the TURBRO Finnmark Mini Split AC, showing its compact design and fan grille.

6. OPERATING INSTRUCTIONS

Your TURBRO Finnmark Mini Split AC can be operated using the included remote control or via the WiFi-enabled app. The unit offers superior heating and cooling capabilities, adapting seamlessly to extreme climates.

6.1 Remote Control Functions:

- **Mode Selection:** Switch between Auto, Cool, Dry (Dehumidify), Heat, and Fan modes.
- **Temperature Adjustment:** Use the up/down arrows to set your desired temperature.
- **Fan Speed:** Adjust fan speed (Low, Medium, High, Auto) for personalized comfort.
- **Swing Function:** Activate the swing feature for automatic airflow distribution.
- **Turbo Mode:** Provides rapid cooling or heating in just 30-60 seconds.
- **Sleep Mode:** Optimizes temperature and fan speed for comfortable sleep and reduced noise.
- **Timer:** Set the unit to turn on or off automatically after a specified period.
- **Eco Mode:** Enhances energy efficiency for reduced power consumption.
- **Anti-Mildew:** Helps prevent mildew growth within the unit.
- **Display:** Turn the unit's LED display on or off.

6.2 WiFi and App Control:

Connect your Finnmark unit to your home WiFi network and control it remotely using the dedicated app. This allows for convenient temperature adjustments, mode changes, and scheduling from anywhere.



Image: The remote control for the TURBRO Finnmark Mini Split AC, showing various buttons for mode selection, temperature, fan speed, and other functions.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your TURBRO Finnmark Mini Split AC. Always disconnect power to the unit before performing any maintenance.

7.1 Indoor Unit Maintenance:

- **Filter Cleaning:** Clean the air filters regularly (every 2-4 weeks, depending on usage) to maintain airflow and efficiency. Wash with mild soap and water, then dry completely before reinserting.
- **Coil Cleaning:** Periodically inspect and clean the indoor coil to remove dust and debris.

7.2 Outdoor Unit Maintenance:

- **Clear Debris:** Keep the area around the outdoor unit clear of leaves, dirt, and other obstructions to ensure proper airflow.
- **Coil Cleaning:** Inspect and clean the outdoor coil periodically to remove any accumulated dirt or debris.

8. TROUBLESHOOTING

If you encounter issues with your unit, refer to the following common troubleshooting steps. For complex problems, contact qualified service personnel.

- **Unit Not Turning On:** Check power supply, circuit breaker, and ensure the remote control batteries are functional.
- **Insufficient Cooling/Heating:** Verify temperature settings, clean air filters, check for obstructions around units, and ensure windows/doors are closed.
- **Unusual Noises:** Minor noises during operation are normal. If loud or unusual noises occur, check for loose parts or contact support.
- **Water Leakage:** Ensure the drainage hose is not blocked or kinked and has a proper downward slope.

9. WARRANTY AND SUPPORT

The TURBRO Finnmark Mini Split AC comes with a **5 Years Limited Warranty**. For detailed warranty terms and conditions, please refer to the warranty description provided with your product or contact TURBRO customer support.

For technical assistance, troubleshooting, or warranty claims, please visit the official TURBRO website or contact their customer service team.