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## Goodman RXNG09AXVJU, FTXNG09AXVJU

# Goodman e-Series (12,000 BTU | 230V) Instruction Manual

Model: RXNG09AXVJU, FTXNG09AXVJU

Brand: Goodman

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman e-Series 12,000 BTU | 230V Ductless Inverter Air Conditioner. This unit is designed to provide efficient and sustainable cooling and heating, offering exceptional comfort while prioritizing environmental responsibility. The Goodman e-Series features inverter technology, adjusting its output to precisely meet your cooling and heating needs, minimizing energy consumption. It also includes a heat pump function for year-round comfort. Please read this manual thoroughly before operating the unit and keep it for future reference.

## 2. SAFETY INFORMATION

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Always adhere to the following safety precautions to prevent injury or damage to the unit.

- **Professional Installation:** Installation, maintenance, and repair of this unit must be performed by qualified service personnel. Improper installation can lead to electric shock, fire, or water leakage.
- **Power Supply:** Ensure the power supply matches the unit's specifications (230V). Do not use extension cords. Always disconnect power before cleaning or servicing.
- **Ventilation:** Ensure proper ventilation around the outdoor unit. Do not block air inlets or outlets.
- **Refrigerant:** This unit contains refrigerant. Do not attempt to modify or tamper with the refrigerant circuit.
- **Children and Pets:** Keep children and pets away from the unit, especially during operation. Do not allow them to play with the remote control.
- **Water Exposure:** Do not expose the indoor or outdoor unit to excessive water or moisture.
- **Flammable Materials:** Do not place flammable materials or spray aerosols near the unit.

## 3. PRODUCT FEATURES

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The Goodman e-Series is equipped with advanced features for optimal comfort and efficiency.

- **Efficient Cooling/Heating:** Provides 12,000 BTU cooling and heating capacity, suitable for areas up to 550 Sq. Ft. This unit is designed for efficient operation with an 18 SEER2 rating.
- **Innovative Heat Pump System:** Transfers heat between indoor and outdoor environments, providing both heating and cooling functions from a single unit.
- **Inverter Technology:** Constantly adjusts and fine-tunes cooling/heating capacity to prevent temperature swings, maintain room comfort, offer faster response time, and ensure flexible, long-lasting performance.
- **Multiple Operation Modes:** Includes Inverter Powerful Operation for rapid cooling/heating, ECO+ Function for optimized energy consumption, and Sleep Mode for comfortable overnight operation.
- **Air Filtration System:** Features a catechin filter (infused with green tea extract) and a titanium deodorizing filter for improved air quality, along with a removable drain pan for easy cleaning.
- **User-Friendly Controls:** Equipped with a wireless remote control with a luminous button, an indoor unit On/Off switch, and an LED display.



Figure 3.1: The Goodman e-Series ductless mini-split system, showing the indoor air handler, outdoor condenser unit, and wireless remote control.

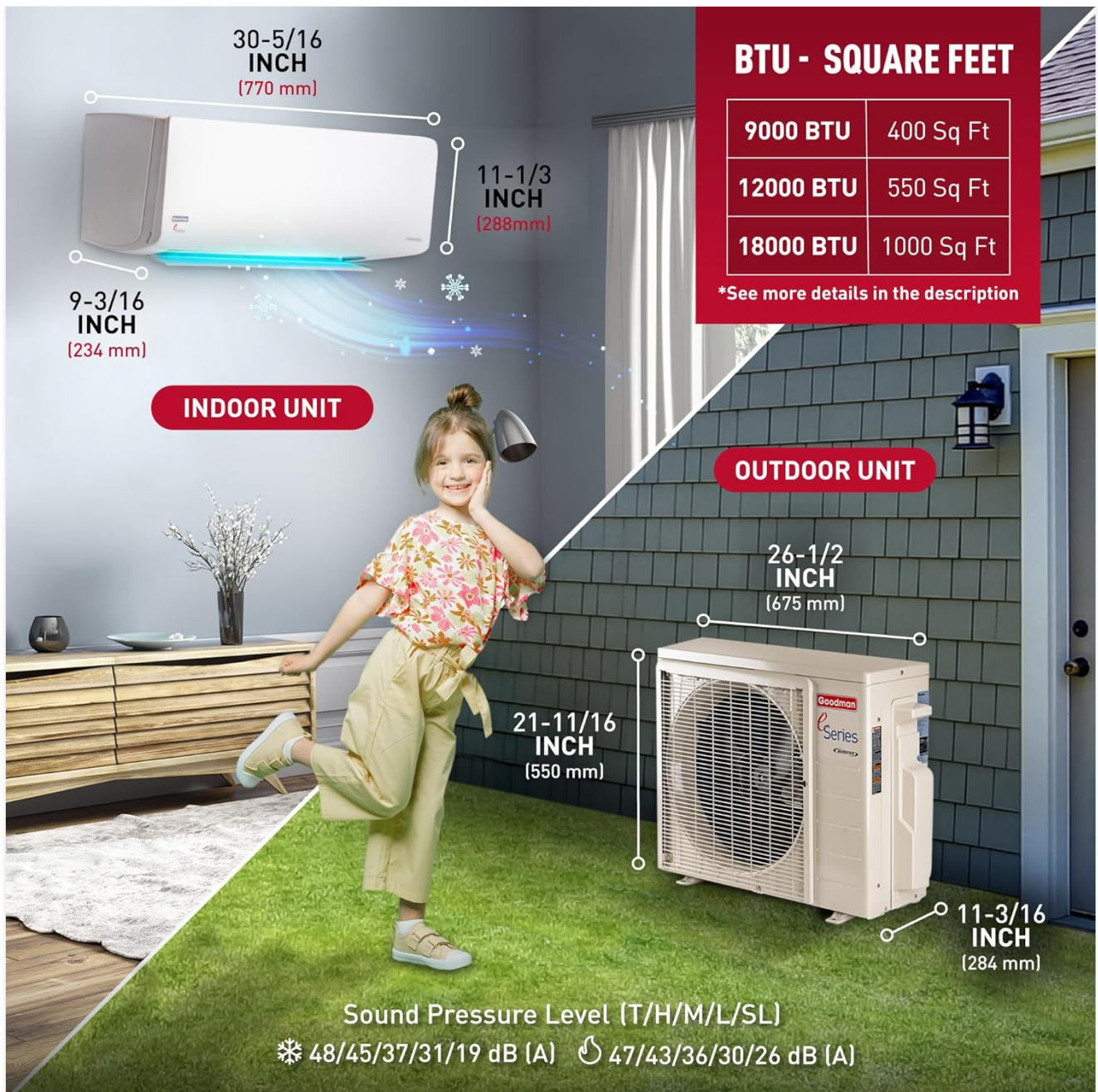


Figure 3.2: Diagram illustrating the recommended coverage area based on BTU, along with the dimensions of both the indoor and outdoor units. For 12,000 BTU, the recommended coverage is up to 550 Sq. Ft.



	Inverter	Conventional
Constantly adjusts and fine-tunes the cooling capacity to prevent undesired temperature swings	✓	✗
Room comfort level maintained	✓	✗
Faster response time	✓	✗
Flexible performance	✓	✗
Long-lasting	✓	✗

Figure 3.3: A comparison table highlighting the advantages of inverter technology over conventional air conditioning systems, including constant adjustment, room comfort, faster response, flexible performance, and long-lasting operation.

# Lifestyle Convenience



**ECO+**  
Ensures optimum energy consumption



**Sleep mode**  
Prevents excessive cooling/heating for a pleasant sleep.



**Indoor Unit On/Off Switch**



**Wireless Remote Controller with Luminous Button**



**LED Display On/Off Button**

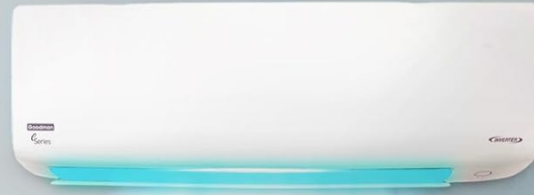


Figure 3.4: Visual representation of lifestyle convenience features such as ECO+ mode for energy consumption, Sleep mode for comfort, indoor unit On/Off switch, wireless remote control, and LED display.

## 4. SETUP AND INSTALLATION

The Goodman e-Series is a split-system air conditioner requiring professional installation. It consists of an indoor unit and an outdoor unit.

- **Site Selection:** Choose appropriate locations for both indoor and outdoor units, ensuring adequate space for airflow and maintenance. The indoor unit should be placed to allow for optimal air distribution, and the outdoor unit should be on a stable, level surface away from obstructions.
- **Electrical Requirements:** Ensure a dedicated 230V power supply is available and properly wired according to local electrical codes.
- **Refrigerant Piping:** The indoor and outdoor units are connected via refrigerant lines. This process requires specialized tools and expertise to ensure proper sealing and charging.
- **Drainage:** The indoor unit produces condensation that must be properly drained. Ensure the drain line is correctly installed and sloped to prevent water leakage.

- **Vacuumping and Charging:** The refrigerant system must be vacuumed to remove air and moisture, then charged with the correct amount of refrigerant.

**Important:** Due to the complexity of split-system installations involving refrigerant and electrical connections, it is strongly recommended that installation be performed by a certified HVAC technician. Refer to the detailed installation manual provided with the product packaging for specific instructions.

## 5. OPERATING INSTRUCTIONS

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Your Goodman e-Series unit can be operated using the wireless remote control or the manual On/Off switch on the indoor unit.

### 5.1. Remote Control Operation

The remote control allows full access to all functions and settings.

- **Power Button:** Press to turn the unit On or Off.
- **Mode Selection:** Cycle through available modes: Cool, Heat, Fan, Dry, Auto.
- **Temperature Adjustment:** Use the Up/Down arrows to set the desired temperature.
- **Fan Speed:** Adjust fan speed (Auto, Low, Medium, High).
- **Swing Function:** Control the vertical louver movement for optimal air distribution.
- **Timer Function:** Set the unit to turn On or Off automatically after a specified period.
- **ECO+ Function:** Activates energy-saving operation for reduced power consumption.
- **Sleep Mode:** Adjusts temperature settings gradually overnight for comfortable sleep and energy savings.
- **Powerful Operation:** Provides maximum cooling or heating capacity for rapid temperature changes.

### 5.2. Manual Operation (Indoor Unit)

In case the remote control is unavailable, a manual On/Off switch is located on the indoor unit. Pressing this switch will typically operate the unit in Auto mode.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your Goodman e-Series unit.

### 6.1. Cleaning the Indoor Unit

# Cleanliness



Figure 6.1: Illustration of the unit's cleanliness features, including the wipe-clean flat panel, catechin filter, titanium deodorizing filter, and removable drain pan.

- **Exterior Cleaning:** The indoor unit features a wipe-clean flat panel. Use a soft, damp cloth to wipe the surface. Do not use harsh detergents or abrasive cleaners.
- **Air Filters:** The unit includes a catechin filter and a titanium deodorizing filter. These should be cleaned regularly (e.g., every 2-4 weeks, depending on usage).
  - Open the front panel of the indoor unit.
  - Remove the filters.
  - Clean filters with a vacuum cleaner or wash them gently with lukewarm water. Allow them to dry completely before reinserting.
- **Removable Drain Pan:** The indoor unit has a removable drain pan that collects condensation. Periodically inspect and clean the drain pan to prevent mold growth and blockages.

## 6.2. Outdoor Unit Maintenance

- **Clear Obstructions:** Ensure the outdoor unit's air inlets and outlets are free from leaves, debris, snow, or other obstructions.
- **Coil Cleaning:** The outdoor coil may accumulate dirt and debris, reducing efficiency. This should be cleaned

by a professional HVAC technician annually.

**Note:** For detailed cleaning procedures and frequency, refer to the comprehensive maintenance section in the full product manual.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unit does not turn on.	No power, remote control batteries dead, circuit breaker tripped.	Check power supply, replace remote batteries, reset circuit breaker.
Insufficient cooling/heating.	Dirty air filters, blocked outdoor unit, wrong mode selected, room too large.	Clean filters, clear obstructions, select correct mode, ensure unit capacity matches room size.
Unusual noise.	Loose parts, foreign objects, refrigerant flow noise (normal).	Check for loose parts. If noise persists or is loud, contact service. Gurgling/hissing sounds are normal for refrigerant.
Water leakage from indoor unit.	Clogged drain pipe, improper installation.	Clear drain pipe. If issue persists, contact a professional for inspection.
Remote control not working.	Dead batteries, obstruction between remote and unit, remote malfunction.	Replace batteries, remove obstructions, try manual operation.

If the problem persists after attempting these solutions, please contact a certified HVAC technician or Goodman customer support for assistance.

## 8. SPECIFICATIONS

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Key technical specifications for the Goodman e-Series (12,000 BTU | 230V) unit:

Attribute	Value
Brand Name	Goodman
Model Info	RXNG09AXVJU
Item Model Number	RXNG09AXVJU
Part Number	RXNG09AXVJU, FTXNG09AXVJU
Capacity	1 Tons (12,000 British Thermal Units)
Voltage	230V



Attribute	Value
Wattage	1000 watts
Efficiency (SEER2)	18
Noise Level	33 dB
Installation Type	Split System
Form Factor	Ductless Mini Split
Product Dimensions	10.75 x 39.5 x 11.5 inches (Indoor Unit)
Item Weight	55 pounds
Floor Area Coverage	Up to 550 Square Feet (based on 12,000 BTU)
Included Components	Indoor Unit, Outdoor Unit
Special Features	Remote Controlled
Color	White

## 9. WARRANTY AND SUPPORT

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Goodman has a legacy of excellence and stands for quality and reliability in cooling solutions. While specific warranty details are not provided in this manual, Goodman products typically come with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Goodman website for detailed warranty terms and conditions.

For technical support, service inquiries, or to locate a certified Goodman service provider, please contact Goodman customer service. Contact information can usually be found on the Goodman website or in the product packaging.



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\*The Goodman e-Series meets U.S. energy efficiency standards, with M-1 ratings for SEER, EER, and HSPF

*Figure 9.1: Goodman's commitment to quality and innovation since 1982, with products designed, engineered, and assembled in the U.S.A.*

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This manual is for informational purposes only. Specifications are subject to change without notice.