

GREE MULTI30CVIR302

Gree Multi21+ Tri-Zone Mini Split Air Conditioner Heat Pump User Manual

Model: MULTI30CVIR302
30,000 BTU / 9K, 9K, 18K Configuration

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Gree Multi21+ Tri-Zone Wall Mount Mini Split Air Conditioner Heat Pump system. Please read this manual thoroughly before installation and use, and retain it for future reference. Proper installation and maintenance are crucial for optimal performance and warranty validity.

The Gree Multi21+ Tri-Zone system is designed to provide comfortable heating and cooling for multiple zones within your home or office, utilizing advanced inverter technology for energy efficiency.

2. SAFETY INFORMATION

Your safety and the safety of others are very important. Please read and follow all safety messages outlined in this manual and on the appliance. Failure to do so may result in serious injury or property damage.

General Safety Precautions

- Always disconnect power before servicing or cleaning the unit.
- Do not insert fingers or objects into the air inlet/outlet.
- Ensure proper ventilation when operating the unit.
- Keep children and pets away from the outdoor unit.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Electrical Safety

- The unit operates on 208/230V. Ensure the power supply matches the unit's requirements.
- All electrical work must be performed by a qualified and licensed electrician in accordance with national and local electrical codes.
- Do not use extension cords or adapter plugs with this unit.

Installation Safety

- Installation must be performed by a state-licensed HVAC contractor to ensure safety and warranty eligibility.
- Ensure the mounting surface is strong enough to support the weight of the indoor and outdoor units.
- Properly evacuate the refrigerant lines before charging the system.

3. PRODUCT OVERVIEW

The Gree Multi21+ Tri-Zone system is a ductless mini-split heat pump designed for multi-room comfort. It consists of one outdoor condenser unit and three indoor wall-mounted units, each independently controlled to maintain desired temperatures in different zones.



Figure 3.1: Complete Gree Multi21+ Tri-Zone Mini Split System. This image displays the three indoor wall-mounted units along with their respective remote controls, and the single outdoor condenser unit, illustrating the full system components.



Figure 3.2: Gree Indoor Wall-Mounted Unit and Remote Control. This image shows a single indoor unit with its digital display and the accompanying wireless remote control, highlighting the user interface.



Figure 3.3: Close-up of the Gree Mini Split Remote Control. This detailed view of the remote control highlights all buttons and the LCD screen, essential for understanding unit operation.

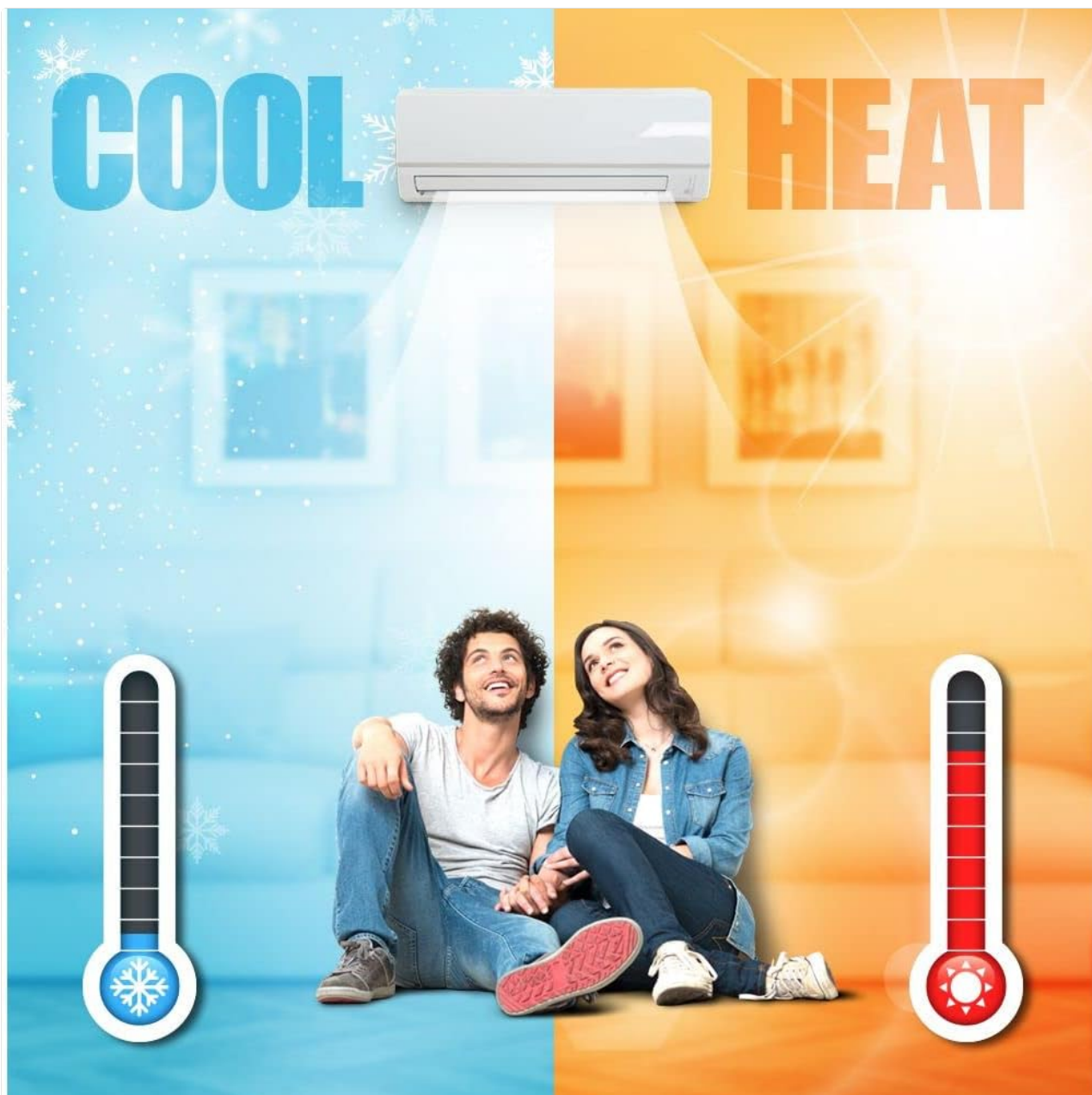


Figure 3.4: Cooling and Heating Capabilities. This graphic visually represents the dual functionality of the Gree system, capable of both cooling (blue side) and heating (orange side) to maintain comfort year-round.

Key Features:

- **Tri-Zone Comfort:** Independently control the temperature in three separate areas.
- **G10 Inverter Technology:** Saves energy, reduces outdoor noise, and maintains steady room temperature by eliminating harsh starts and stops.
- **Eco-Friendly Refrigerant:** Uses R410A refrigerant.
- **Compact Design:** Wall-mounted indoor units blend seamlessly with any decor.
- **Wi-Fi Capable:** Option to upgrade with a field-installed Wi-Fi kit (sold separately) for remote control via smartphone.
- **Air Purification Filter:** Enhances indoor air quality.

4. SETUP AND INSTALLATION

The installation of this Gree Multi21+ system is complex and requires specialized tools and knowledge. For safety and to ensure warranty eligibility, **installation must be performed by a state-licensed HVAC contractor.**

Pre-Installation Considerations:

- **Location:** Choose appropriate locations for indoor units (away from direct sunlight, heat sources, and obstructions) and the outdoor unit (well-ventilated, stable ground, away from noise-sensitive areas).
- **Line Set:** Required but not included. This system requires 1/4" x 3/8" line sets (x2) for the 9K units and appropriate sizes for the 18K unit. Consult your HVAC contractor for specific requirements.
- **Electrical Supply:** Ensure a dedicated 208/230V power supply is available at the outdoor unit location.

Installation Steps (Overview for Contractor):

1. Mounting the indoor units securely on the wall.
2. Installing the outdoor condenser unit on a stable, level surface.
3. Connecting refrigerant lines between indoor and outdoor units.
4. Performing vacuum evacuation of the refrigerant lines.
5. Making electrical connections according to wiring diagrams.
6. Checking for leaks and performing a test run.



Figure 4.1: Properly Installed Indoor Unit. This image depicts a family comfortably enjoying a room where a Gree indoor unit is correctly installed on the wall, demonstrating the aesthetic integration and comfort provided by the system.



Figure 4.2: Multi-Zone Temperature Control. This diagram illustrates a floor plan with different temperature settings in various rooms, showcasing the tri-zone capability of the Gree system to provide individualized comfort.

5. OPERATING INSTRUCTIONS

Each indoor unit is controlled by its dedicated wireless remote control. Ensure the remote control has fresh batteries and is pointed towards the indoor unit when sending commands.

Remote Control Functions:

- **ON/OFF:** Powers the unit on or off.
- **MODE:** Cycles through operating modes: Auto, Cool, Dry, Heat, Fan.
- **FAN:** Adjusts fan speed (Auto, Low, Medium, High).
- **TEMP ▲/▼:** Increases or decreases the set temperature.
- **SWING:** Controls the vertical louver movement for air distribution.
- **SLEEP:** Activates sleep mode for quiet operation and energy saving during sleep.
- **TURBO:** Provides rapid cooling or heating to reach the set temperature quickly.
- **X-FAN:** Continues fan operation after shutdown to dry the indoor coil and prevent mold.
- **iFEEL:** Activates a temperature sensor in the remote control for more precise temperature sensing at your location.
- **CLOCK:** Sets the current time on the remote.
- **TIMER ON/OFF:** Sets a timer for the unit to turn on or off automatically.

- **LIGHT:** Turns the indoor unit's display light on or off.

Operating Modes:

- **Cool Mode:** For cooling the room. Set desired temperature and fan speed.
- **Heat Mode:** For heating the room. Set desired temperature and fan speed.
- **Dry Mode:** For dehumidifying the room. Fan speed is automatically controlled.
- **Fan Mode:** Circulates air without heating or cooling. Fan speed can be adjusted.
- **Auto Mode:** The unit automatically selects cooling or heating based on the room temperature and set temperature.

Wi-Fi Control (Optional):

This system is Wi-Fi capable. A Wi-Fi kit is sold separately and can be field-installed by a qualified technician. Once installed, you can control your unit remotely using a smartphone application, allowing for convenient temperature management from anywhere.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Gree mini split system. Always disconnect power to the unit before performing any maintenance.

Indoor Unit Maintenance:

- **Air Filter Cleaning:** Clean the air filters every two weeks or more frequently depending on usage and air quality. Open the front panel, remove filters, wash with lukewarm water and mild detergent, rinse, dry completely, and reinsert.
- **Unit Surface Cleaning:** Wipe the indoor unit's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

Outdoor Unit Maintenance:

- **Coil Cleaning:** Periodically clean the outdoor coil to remove dirt, leaves, and debris. Use a soft brush or vacuum cleaner.
- **Clear Obstructions:** Ensure the area around the outdoor unit is free from obstructions (e.g., plants, snow, debris) to allow for proper airflow.
- **Drainage Check:** Verify that the condensate drain line is not clogged and water can flow freely.

Professional Maintenance:

It is recommended to have a licensed HVAC technician perform professional maintenance annually. This includes checking refrigerant levels, inspecting electrical connections, cleaning coils, and ensuring all components are functioning correctly.

7. TROUBLESHOOTING

Before contacting customer support, please refer to the following common issues and their potential solutions.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Remote control batteries dead; Circuit breaker tripped	Check power connection; Replace batteries; Reset circuit breaker
Insufficient cooling/heating	Dirty air filters; Obstruction at air inlet/outlet; Incorrect mode setting; Low refrigerant	Clean air filters; Remove obstructions; Select correct mode; Contact HVAC technician for refrigerant check
Unusual noise	Loose parts; Fan obstruction; Normal operating sounds (e.g., refrigerant flow)	Check for loose parts; Remove fan obstruction; If persistent or loud, contact technician
Water leaking from indoor unit	Clogged drain pipe; Improper installation angle	Clear drain pipe; Contact HVAC technician for inspection and correction
Remote control not working	Dead batteries; Obstruction between remote and unit; Remote out of range	Replace batteries; Remove obstruction; Move closer to unit

If the problem persists after attempting these solutions, or if you encounter an issue not listed here, please contact a qualified HVAC technician or Gree customer support for assistance.

8. SPECIFICATIONS

Detailed technical specifications for the Gree Multi21+ Tri-Zone Mini Split Air Conditioner Heat Pump, Model MULTI30CVIR302.

Specification	Value
Model Number	MULTI30CVIR302
System Capacity	30,000 BTU (2.5 Tons)
Indoor Unit Configuration	9,000 BTU + 9,000 BTU + 18,000 BTU
Voltage	208/230 Volts
Seasonal Energy Efficiency Ratio (SEER)	21.6
Noise Level (Outdoor Unit)	55 dB
Refrigerant Type	R410A
Outdoor Unit Dimensions (W x H x D)	38.4" x 31" x 17.3"
Outdoor Unit Item Weight	146 pounds
Indoor Unit Dimensions (9K BTU)	33" x 11" x 8"
Indoor Unit Dimensions (18K BTU)	38" x 11" x 8"
Form Factor	Mini-Split
Special Feature	Air Purification Filter

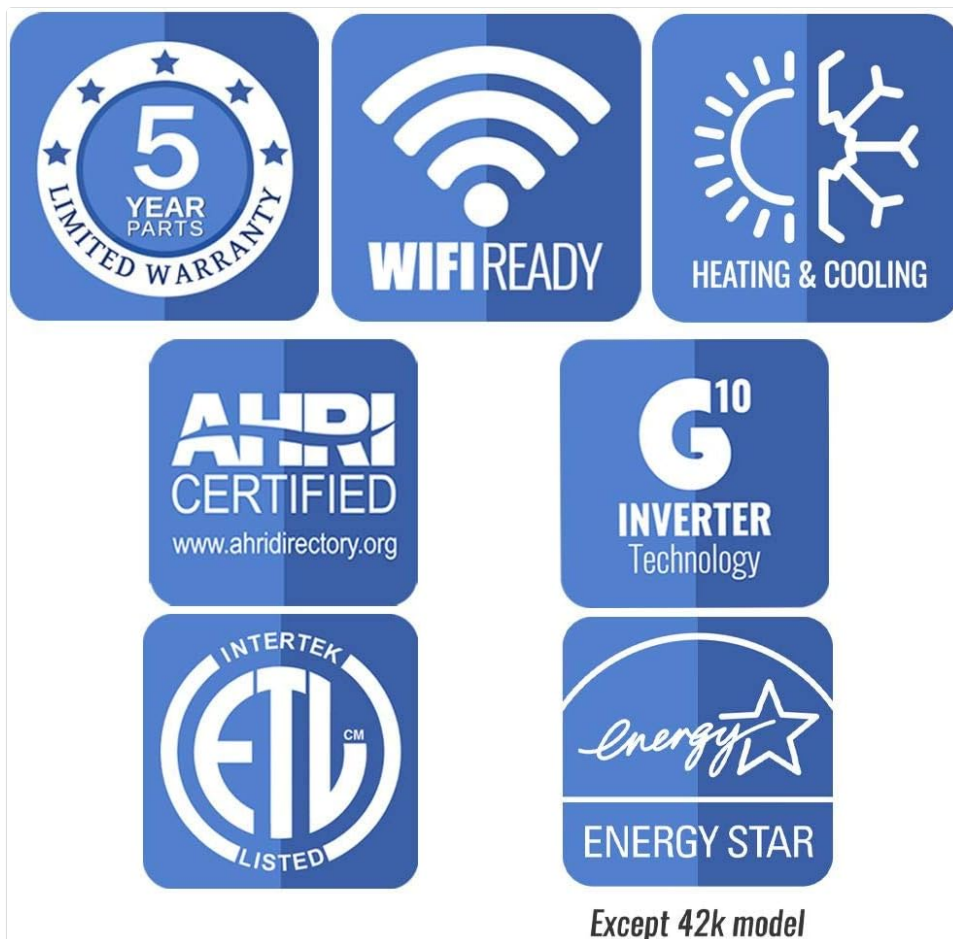


Figure 8.1: Vireo+ Multi Unit Dimensions. This table provides a comprehensive list of dimensions (Width x Height x Depth) for various BTU capacities of both indoor and outdoor units within the Vireo+ Multi series, aiding in planning and installation.

9. WARRANTY AND SUPPORT

Gree stands behind the quality of its products. Your Multi21+ Tri-Zone system comes with a manufacturer's warranty.

Warranty Terms:

- **5 Years on Parts:** Covers manufacturing defects on all parts for five years from the date of purchase.
- **7 Years on Compressor:** Covers the compressor for seven years from the date of purchase.

Important: To be eligible for the warranty, installation must be performed by a state-licensed HVAC contractor. Failure to comply with this requirement may void your warranty.

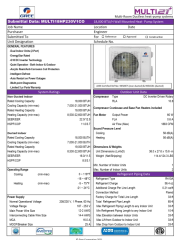





Figure 9.1: Product Certifications and Warranty. This image displays various certifications and features, including a '5 Year Limited Parts Warranty' icon, 'WiFi Ready', 'Heating & Cooling', 'AHRI Certified', 'G10 Inverter Technology', 'Intertek ETL Listed', and 'Energy Star' logos, indicating the product's quality and compliance.

Customer Support:

For technical assistance, warranty claims, or to locate a certified service provider, please contact Gree customer support through their official website or the contact information provided with your purchase documentation.

Related Documents

	<p>GREE MULTI18HP230V1CO Multi-Room Ductless Heat Pump System - Submittal Data</p> <p>Technical submittal data for the GREE MULTI18HP230V1CO Multi-Room Ductless Heat Pump System, detailing general features, system ratings, outdoor unit specifications, dimensional data, refrigerant piping information, and extended operational performance ratings.</p>
	<p>GREE Ductless Mini-Split HVAC Systems: Efficient Room Comfort Solutions</p> <p>Discover GREE's range of ductless mini-split HVAC systems, offering efficient, zone-controlled heating and cooling for any room. Learn about single-zone and multi-zone advantages, key features, installation requirements, and suitable applications.</p>
	<p>GREE GWHD(36)ND3MO Multi-Zone Heat Pump System: Specifications and Capabilities</p> <p>Detailed specifications, features, and allowable indoor/outdoor unit combinations for the GREE GWHD(36)ND3MO 36000 BTU/H Multi-Zone Heat Pump System, including performance data, dimensions, and clearances.</p>
	<p>GREE MULTI24HP230V1EO Multi-Zone Heat Pump Submittal Data and Specifications</p> <p>Detailed submittal data, specifications, features, and compatibility chart for the GREE MULTI24HP230V1EO 24000 BTU/H Multi-Zone Heat Pump System. Includes technical details, dimensions, and installation clearances.</p>