

## GREE MULTI30CVIR300

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

Model: MULTI30CVIR300

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Gree Multi21+ Tri-Zone Mini Split Air Conditioner Heat Pump. Please read this manual thoroughly before operating the unit and retain it for future reference.

## 2. SAFETY INFORMATION

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring instructions may cause harm or damage.

- Installation must be performed by a state-licensed HVAC contractor to ensure proper function and warranty validity.
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel.
- Ensure the power supply matches the unit's specifications (208/230V).
- Keep the area around the outdoor unit clear of obstructions.
- Do not insert fingers or objects into the air inlet/outlet.

## 3. PRODUCT OVERVIEW

The Gree Multi21+ Tri-Zone system is an inverter-driven mini split air conditioner and heat pump designed to provide heating and cooling for up to three separate zones. It utilizes eco-friendly R410A refrigerant.



Image: Overview of the Gree Multi21+ Tri-Zone system, showing the outdoor condenser unit, three indoor wall-mounted units, and their respective remote controls.



Image: A single Gree indoor wall-mounted unit, displaying a temperature of 28 degrees Celsius, alongside its wireless remote control.

### Key Features:

- **G10 Inverter Technology:** Provides energy savings, reduced outdoor noise, and stable room temperatures.
- **Tri-Zone Capability:** Heats and cools up to three independent zones without distribution boxes.
- **High SEER Rating:** SEER 21 for efficient operation.
- **Wi-Fi Capable:** Optional Wi-Fi kit (sold separately) allows remote control via smartphone.
- **Heating and Cooling Functionality:** Provides year-round comfort.

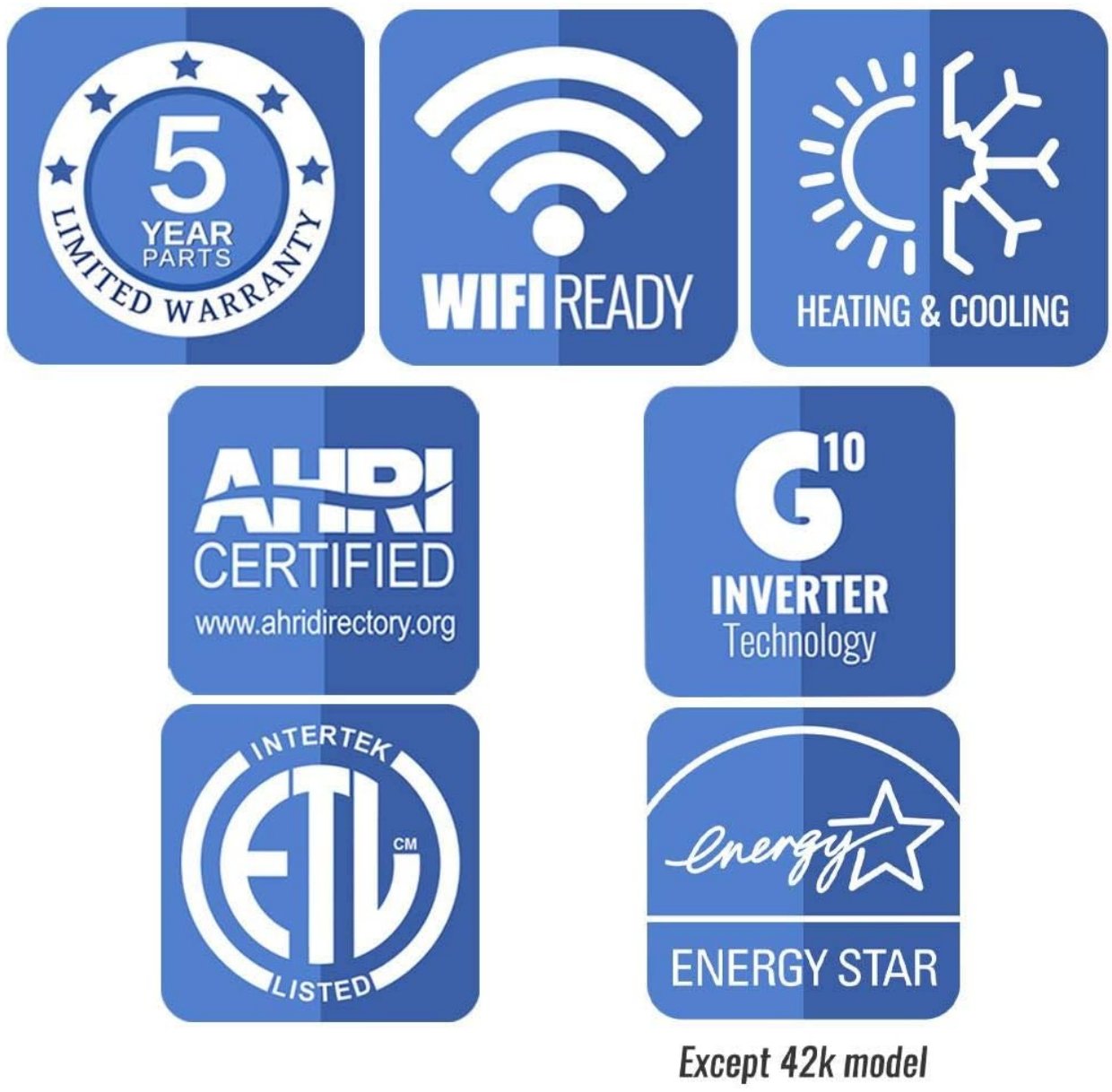


Image: A collection of icons highlighting key product features and certifications, including warranty, Wi-Fi readiness, heating and cooling capabilities, AHRI certification, G10 Inverter Technology, ETL listing, and Energy Star rating.

## 4. INSTALLATION AND SETUP

### 4.1 Pre-Installation Requirements

- **Line Set:** Three 1/4" x 3/8" line sets are required (not included).
- **Professional Installation:** Installation must be performed by a state-licensed HVAC contractor. This is crucial for safety, optimal performance, and warranty eligibility.
- **Power Supply:** A dedicated 208/230V electrical circuit is necessary.

### 4.2 System Components and Placement

The system consists of one outdoor condenser unit and three indoor wall-mounted units. Each indoor unit is connected to the outdoor unit via refrigerant lines and electrical wiring.

Vireo® Multi	
INDOOR UNITS	(W.H.D) MEASUREMENT
9,000 BTU	33" x 11" x 8"
12,000 BTU	33" x 11" x 8"
18,000 BTU	38" x 11" x 8"
24,000 BTU	42" x 12" x 9"

OUTDOOR UNITS	MEASUREMENT
18,000 BTU	38" x 27.6" x 15.6"
24,000 BTU	38" x 31.1" x 17.3"
30,000 BTU	38.4" x 31" x 17.3"
36,000 BTU	42.5" x 43.9" x 18.9"
42,000 BTU	42.5" x 43.9" x 18.9"

Image: An isometric floor plan view demonstrating how a multi-zone system can maintain different temperatures (e.g., 70°, 68°, 72°) in separate rooms from a single outdoor unit.

## 5. OPERATING INSTRUCTIONS

### 5.1 Remote Control Functions

The wireless remote control allows you to manage all functions of your indoor unit. Ensure there are no obstructions between the remote and the indoor unit's receiver.



Image: A detailed view of the Gree mini split remote control, highlighting its LCD screen and various function buttons for mode selection, fan speed, temperature adjustment, and other settings.

- **Power Button:** Turns the unit ON or OFF.
- **MODE Button:** Cycles through operating modes (Auto, Cool, Dry, Heat, Fan).
- **FAN Button:** Adjusts fan speed (Auto, Low, Med, High).
- **Temperature Buttons (▲/▼):** Increases or decreases the set temperature.
- **SWING Button:** Controls the louver's vertical swing.
- **SLEEP Button:** Activates sleep mode for quiet operation and energy saving.



- **TIMER ON/OFF:** Sets the unit to turn ON or OFF automatically.
- **TURBO Button:** Activates rapid cooling or heating.
- **X-FAN Button:** Runs the fan for a short period after shutdown to dry the coil.
- **I FEEL Button:** Activates the remote's built-in temperature sensor for more precise room temperature control.
- **LIGHT Button:** Turns the indoor unit's display light ON or OFF.
- **CLOCK Button:** Sets the current time.

## 5.2 Operating Modes

Your Gree mini split offers several operating modes to suit your comfort needs:

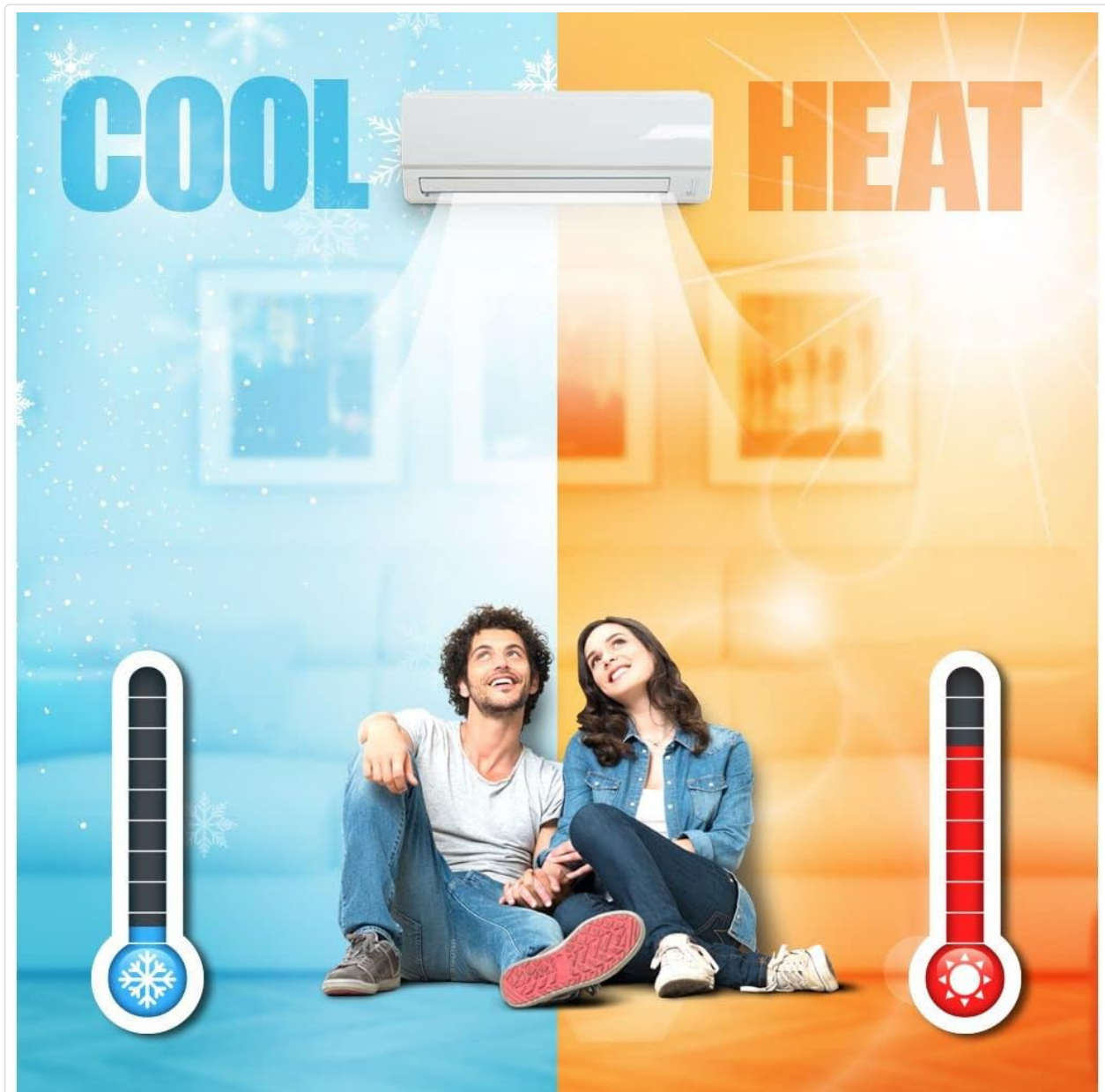


Image: A visual representation of the air conditioner's dual functionality, showing cool air with snowflakes on one side and warm air with a sun/snowflake icon on the other, indicating both cooling and heating capabilities.

- **COOL Mode:** Provides cooling to lower the room temperature.
- **HEAT Mode:** Provides heating to raise the room temperature.
- **DRY Mode:** Dehumidifies the room by removing excess moisture.
- **FAN Mode:** Circulates air without heating or cooling.
- **AUTO Mode:** The unit automatically selects the appropriate mode (Cool, Heat, or Fan) based on the room temperature and your set temperature.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your unit.

### 6.1 Air Filter Cleaning

- **Frequency:** Clean air filters every two weeks or more frequently depending on usage and air quality.
- **Procedure:**
  1. Open the front panel of the indoor unit.
  2. Remove the air filters.
  3. Wash filters with lukewarm water and mild detergent.
  4. Rinse thoroughly and allow to air dry completely before reinserting.

### 6.2 Outdoor Unit Care

- Periodically check the outdoor unit for debris, leaves, or other obstructions.
- Ensure the area around the outdoor unit is clear to allow for proper airflow.
- Do not spray water directly onto the electrical components.

## 7. TROUBLESHOOTING

Before contacting service, please check the following common issues:

Problem	Possible Cause	Solution
Unit does not start	No power; remote control batteries low; timer set.	Check circuit breaker; replace batteries; cancel timer setting.
Insufficient cooling/heating	Dirty air filters; blocked outdoor unit; windows/doors open; incorrect mode.	Clean filters; clear obstructions; close openings; select correct mode.
Unusual noise	Loose parts; foreign objects; refrigerant flow.	Contact a licensed HVAC technician if persistent or loud. Minor gurgling is normal.
Water leakage from indoor unit	Blocked drain hose; improper installation.	Contact a licensed HVAC technician.

## 8. SPECIFICATIONS

Detailed technical specifications for the Gree Multi21+ Tri-Zone system, model MULTI30CVIR300.

Specification	Value
Model Number	MULTI30CVIR300
Cooling Power	30,000 British Thermal Units (BTU)
Voltage	230 Volts
Seasonal Energy Efficiency Ratio (SEER)	21



Specification	Value
Refrigerant	R-410A
Item Weight	212 pounds
Product Dimensions (Outdoor Unit)	10 x 29 x 11 inches (approximate, specific to outdoor unit)
Special Feature	Heating And Cooling Function

8.1 Unit Dimensions

Vireo+ Multi	
INDOOR UNITS	(WxHxD) MEASUREMENT
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Image: A table detailing the width, height, and depth measurements for different BTU capacities of both indoor and outdoor units within the Vireo+ Multi series.

9. WARRANTY INFORMATION

Gree provides the following warranty for this product:

- **Parts:** 5-year limited warranty on parts.
- **Compressor:** 7-year limited warranty on the compressor.

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

## 10. CUSTOMER SUPPORT

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For technical assistance, warranty claims, or service inquiries, please contact your authorized Gree dealer or a licensed HVAC professional. Refer to your purchase documentation for specific contact details.