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› [Gree 36,000 BTU Multi21+ Tri-Zone Concealed Duct Mini Split Air Conditioner Heat Pump 208/230V SEER 21 \(9-9-9\) User Manual](#)

### GREE MULTI36CDUCT300

# Gree Multi21+ Tri-Zone Concealed Duct Mini Split Air Conditioner Heat Pump

Model: MULTI36CDUCT300

Brand: GREE

## 1. PRODUCT OVERVIEW

The Gree Multi21+ Tri-Zone Concealed Duct Mini Split System is an advanced air conditioning and heat pump solution designed for multi-zone climate control. It features Gree's G10 inverter-driven compressor and utilizes eco-friendly R410A refrigerant, allowing it to efficiently heat and cool up to three distinct zones without the need for distribution boxes. The concealed duct design offers ultimate flexibility and discretion, as the slim indoor units are installed above suspended ceilings or within open closet spaces, delivering conditioned air through ducting and suitable ceiling or wall grilles.

This system is engineered for quiet, energy-efficient comfort, maintaining steady room temperatures by eliminating the harsh starts and stops common in conventional systems.



Figure 1.1: Complete Gree Multi21+ Tri-Zone Mini Split System Components.

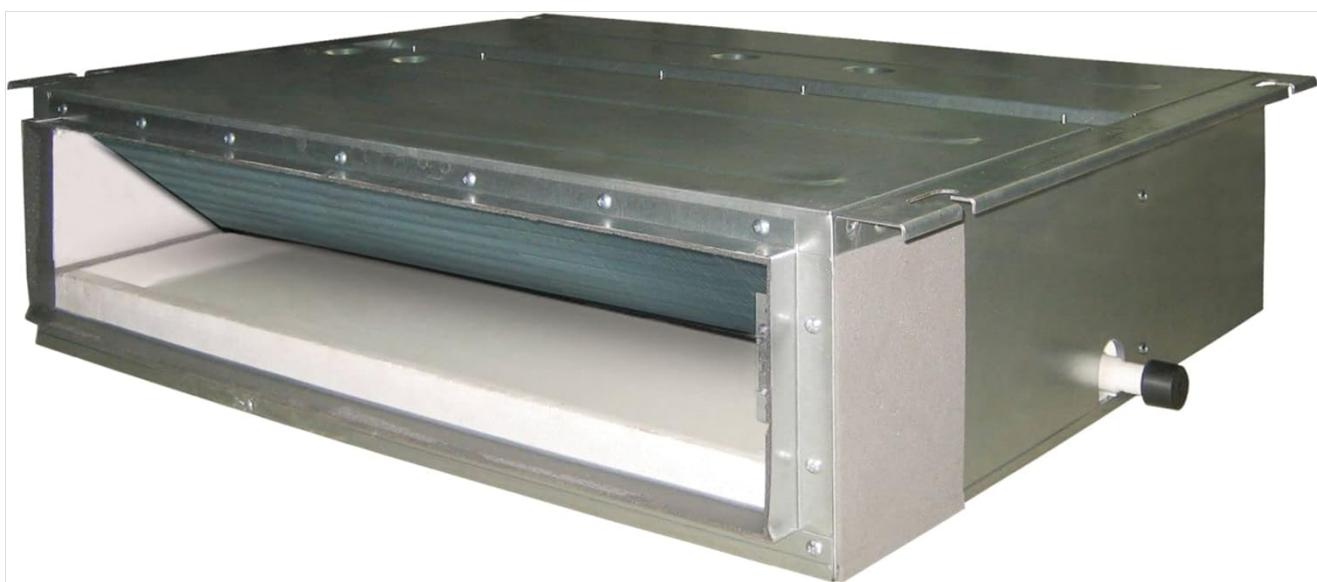


Figure 1.2: Gree Concealed Duct Indoor Unit.



Figure 1.3: Gree Outdoor Condenser Unit.

## 2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing or operating this unit. Failure to follow these instructions may result in property damage, personal injury, or death.

- **Professional Installation Required:** Installation, maintenance, and repair of this air conditioning system must be performed by a state-licensed HVAC contractor. Improper installation can lead to electric shock, fire, water leakage, or other serious hazards.
- **Electrical Safety:** Ensure the unit is properly grounded and connected to a dedicated power supply as specified in the electrical requirements. Do not operate with damaged power cords.
- **Refrigerant Handling:** This unit contains R410A refrigerant. Only qualified personnel should handle refrigerant. Do not vent refrigerant into the atmosphere.
- **Clearances:** Maintain adequate clearances around the outdoor unit for proper airflow and heat dissipation.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.

## 3. SETUP AND INSTALLATION

The Gree Multi21+ Tri-Zone system requires professional installation due to its complex nature and the need for proper refrigerant handling and electrical connections. The concealed duct indoor units are designed for discreet installation within ceiling or closet spaces.

### 3.1 Key Installation Requirements:

- **Line Set:** Three sets of 1/4" x 3/8" line sets are required (not included with the unit). Ensure proper sizing and

insulation for optimal performance.

- **Electrical Supply:** The system operates on 208/230V. A dedicated circuit with appropriate overcurrent protection is essential.
- **Ductwork:** Proper ductwork design and installation are crucial for efficient air distribution from the concealed indoor units to the conditioned spaces.
- **Drainage:** Ensure proper condensate drainage from all indoor units to prevent water damage.



Figure 3.1: Gree DUCT-A Indoor and Outdoor Unit Dimensions.

## 4. OPERATING INSTRUCTIONS

Each indoor unit is controlled independently, allowing for customized temperature settings in each of the three zones. The system provides both heating and cooling functionalities.

### 4.1 Basic Operation:

- **Power On/Off:** Use the remote control to turn the unit on or off.
- **Mode Selection:** Select desired mode (Cool, Heat, Fan, Dry, Auto) using the remote control.

- **Temperature Adjustment:** Set the desired temperature for each zone. The G10 inverter technology ensures precise temperature control and energy efficiency.
- **Fan Speed:** Adjust fan speed for comfort and airflow.
- **Timer Function:** Utilize the timer function for scheduled operation.

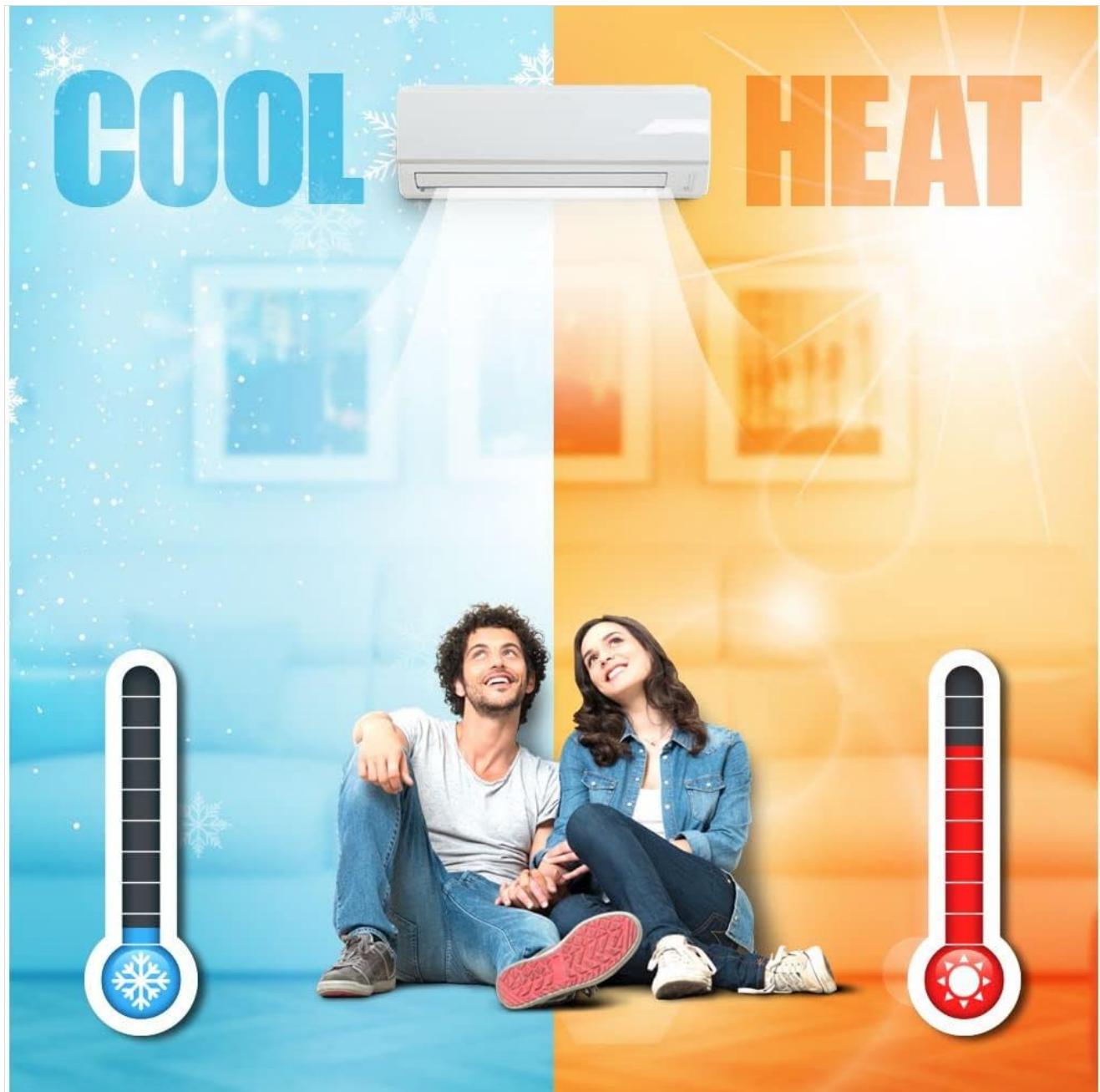


Figure 4.1: Heating and Cooling Functionality.

Gree DUCT-A	
INDOOR UNITS	(W,H,D) MEASUREMENT
9,000 BTU	27.6" x 7.9" x 24.2"
12,000 BTU	27.6" x 7.9" x 24.2"
18,000 BTU	35.4" x 7.9" x 24.2"
24,000 BTU	43.3" x 7.9" x 24.2"

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"	

## 5. MAINTENANCE

Regular maintenance is crucial for ensuring the longevity and efficient operation of your Gree Multi21+ system. Always turn off the power to the unit before performing any maintenance.

### 5.1 Recommended Maintenance:

- **Filter Cleaning:** Regularly clean or replace the air filters in the indoor units to maintain good air quality and system efficiency. Refer to your installer for access to concealed filters.
- **Coil Cleaning:** Have the indoor and outdoor coils professionally cleaned annually to prevent dirt buildup, which can reduce efficiency.
- **Drain Line Check:** Ensure condensate drain lines are clear and free of obstructions to prevent water overflow.
- **Outdoor Unit Cleaning:** Keep the area around the outdoor unit clear of debris, leaves, and other obstructions. Periodically clean the exterior of the outdoor unit.
- **Professional Inspection:** Schedule annual professional inspections and tune-ups by a licensed HVAC contractor.

## 6. TROUBLESHOOTING

If you encounter issues with your system, refer to the following basic troubleshooting steps. For complex problems, always contact a licensed HVAC professional.

### 6.1 Common Issues:

- **Unit Not Turning On:** Check if the unit is plugged in, the circuit breaker is not tripped, and the remote control batteries are functional.
- **Insufficient Cooling/Heating:** Ensure air filters are clean, outdoor unit is not obstructed, and temperature settings are correct. Check if windows and doors are closed.
- **Unusual Noises:** Minor operational noises are normal. If you hear loud or unusual noises, turn off the unit and contact a professional.
- **Water Leakage:** Check if the condensate drain line is clogged. If the issue persists, contact a professional.
- **Error Codes:** If an error code appears on the display, note the code and consult your HVAC professional.

## 7. SPECIFICATIONS

Key technical specifications for the Gree 36,000 BTU Multi21+ Tri-Zone Concealed Duct Mini Split Air Conditioner Heat Pump.

Specification	Value
Brand Name	GREE
Model Info	MULTI36CDUCT300
Item Weight	198 pounds
Product Dimensions	17 x 43 x 43 inches
Capacity	3 Tons (36,000 BTU)

Specification	Value
Noise Level	50 dB
Installation Type	Split System
Special Features	Slim, Eco-friendly
Color	Cream
Material Type	Steel
Refrigerant	R-410A
Seasonal Energy Efficiency Ratio (SEER)	21
Power Source	Corded Electric



Figure 7.1: Product Certifications and Key Features.

## 8. WARRANTY AND SUPPORT

Gree provides a manufacturer's warranty for this product:

- **Parts:** 5 Year Limited Warranty
- **Compressor:** 7 Year Limited Warranty

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

For technical support, warranty claims, or service, please contact your licensed HVAC installer or visit the official Gree website for authorized service providers.

You can also find more information about Gree products and support on their official store page [GREE Store on Amazon](#).

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