

GREE MULTI42CDUCT500

Gree Multi21+ Penta-Zone Concealed Duct Mini Split Air Conditioner Heat Pump User Manual

Model: MULTI42CDUCT500

1. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death. Keep this manual for future reference.

- **Professional Installation Required:** This system must be installed by a state-licensed HVAC contractor. Improper installation can void the warranty and create safety hazards.
- **Electrical Safety:** Ensure the power supply matches the unit's requirements (208/230V). All electrical work must comply with local and national electrical codes. Disconnect power before servicing.
- **Refrigerant Handling:** This unit uses R410A refrigerant. Only qualified personnel should handle refrigerant.
- **Clearance:** Maintain adequate clearance around both indoor and outdoor units for proper airflow and maintenance.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

2. PRODUCT OVERVIEW

The Gree Multi21+ Penta-Zone Concealed Duct Mini Split Air Conditioner Heat Pump system provides efficient heating and cooling for up to five separate zones. It features Gree's G10 inverter-driven compressor technology for energy savings and quiet operation.

System Components



Image: Overview of the Gree Multi21+ Penta-Zone system, showing the outdoor condenser unit, five concealed duct indoor units, and their respective remote controls.

Indoor Unit



Image: A detailed view of a Gree concealed duct indoor unit, designed for discreet installation above suspended ceilings or within open closet spaces.

Outdoor Unit



Image: The Gree outdoor condenser unit, featuring the GREE logo and inverter technology branding.

Key Features

- **G10 Inverter Technology:** Saves energy, reduces outdoor noise, and maintains stable room temperatures.
- **Concealed Duct Design:** Indoor units are hidden above ceilings or in closets, delivering conditioned air through ducting.
- **Multi-Zone Capability:** Heats and cools up to five independent zones without distribution boxes.
- **Eco-Friendly Refrigerant:** Utilizes R410A refrigerant.
- **Air Purification Filter:** Enhances indoor air quality.



Image: Visual representation of product features including warranty, refrigerant type, heating and cooling capabilities, certifications (ETL, AHRI), G10 Inverter Technology, and Energy Star rating.

3. INSTALLATION GUIDELINES

Installation of this Gree Multi21+ system is complex and requires specialized knowledge and tools. It must be performed by a state-licensed HVAC contractor to ensure safety, proper function, and warranty validity.

- **Line Set Requirement:** The system requires 1/4" x 3/8" line sets (x5), which are not included.
- **Ductwork:** Proper ductwork design and installation are crucial for efficient air distribution from the concealed indoor units.
- **Electrical Connections:** Ensure all electrical connections are secure and meet local codes.
- **Refrigerant Charging:** The system must be properly evacuated and charged with R410A refrigerant by a certified technician.

4. OPERATING INSTRUCTIONS

Each indoor unit is controlled independently via its remote control, allowing for customized temperature settings in each zone.

Basic Operation

- **Power On/Off:** Press the 'ON/OFF' button on the remote control to start or stop the unit.
- **Mode Selection:** Use the 'MODE' button to cycle through available modes: AUTO, COOL, HEAT, DRY, FAN.
- **Temperature Adjustment:** Use the 'TEMP UP' and 'TEMP DOWN' buttons to set your desired temperature.
- **Fan Speed:** Adjust fan speed using the 'FAN' button (AUTO, LOW, MED, HIGH).
- **Timer Function:** Set the unit to turn on or off automatically at specific times. Refer to the remote control manual for detailed timer settings.

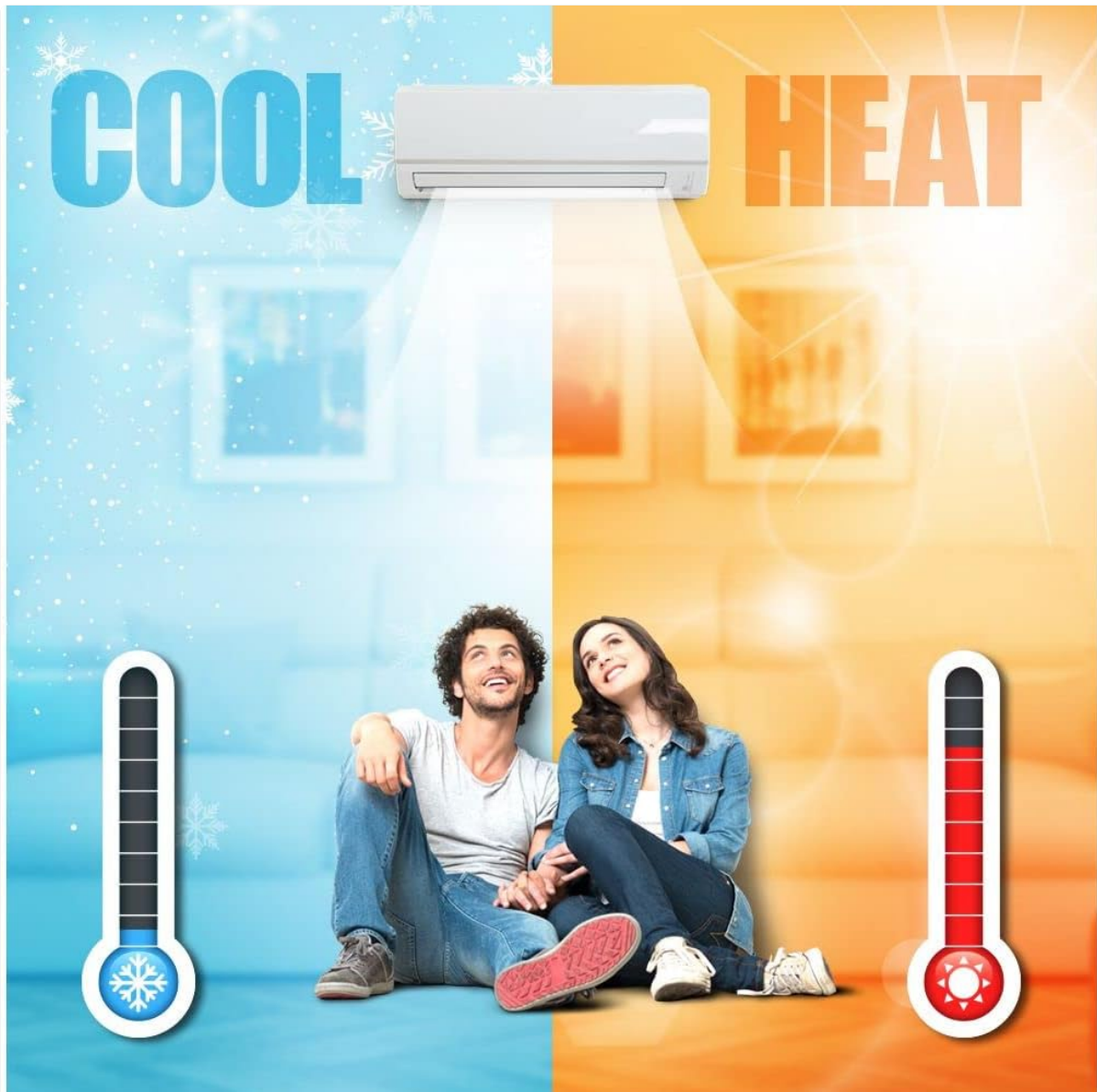


Image: A graphic illustrating the system's ability to provide both cooling and heating functions.

Zoned Temperature Control

The Penta-Zone system allows for individual temperature control in up to five different areas of your home or office, optimizing comfort and energy usage.



Image: An isometric floor plan demonstrating how different rooms can maintain distinct temperature settings using a multi-zone mini-split system.

5. MAINTENANCE

Regular maintenance ensures optimal performance, energy efficiency, and longevity of your Gree mini-split system. Always turn off the power to the unit before performing any maintenance.

Indoor Unit Maintenance

- **Air Filter Cleaning:** Check and clean air filters every 2-4 weeks, or more frequently if the unit is used heavily or in dusty environments. Dirty filters restrict airflow and reduce efficiency.
- **Coil Cleaning:** The indoor coil should be inspected and cleaned annually by a qualified technician.

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:** The outdoor coil should be cleaned annually by a qualified technician to remove dirt and grime.
- **Drainage:** Ensure the condensate drain line is clear and free of blockages.

6. TROUBLESHOOTING

Before contacting service, review the following common issues and solutions.

Problem	Possible Cause	Solution
Unit does not turn on	No power; remote control batteries dead	Check circuit breaker; replace remote batteries.

Problem	Possible Cause	Solution
Insufficient cooling/heating	Dirty air filter; blocked outdoor unit; incorrect mode/temperature setting	Clean air filter; clear obstructions; verify settings.
Unusual noise	Loose parts; fan obstruction; refrigerant issue	Turn off unit and inspect for loose parts or obstructions. If noise persists, contact a technician.
Water leakage from indoor unit	Blocked condensate drain line; improper installation	Check and clear drain line. If issue persists, contact a technician.

If troubleshooting steps do not resolve the issue, please contact a qualified HVAC technician for assistance.

7. SPECIFICATIONS

Detailed technical specifications for the Gree Multi21+ Penta-Zone Concealed Duct Mini Split Air Conditioner Heat Pump, Model MULTI42CDUCT500.

Specification	Value
Brand Name	GREE
Model Info	MULTI42CDUCT500
Item Weight	198 pounds
Product Dimensions	17 x 42 x 43 inches
Capacity	3.5 Tons (42000 British Thermal Units)
Noise Level	50 dB
Installation Type	Split System
Special Feature	Air Purification Filter
Color	White
Voltage	230 Volts
Material Type	Steel
Batteries Included?	No
Batteries Required?	No
Date First Available	July 21, 2017
Seasonal Energy Efficiency Ratio (SEER)	21
Refrigerant	R 410A

Specification	Value
Power Source	Corded Electric

Unit Dimensions

Gree DUCT-A	
INDOOR UNITS	(WxHxD) 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"

Image: A table detailing the width, height, and depth measurements for different BTU capacities of Gree DUCT-A indoor and outdoor units.

8. WARRANTY AND SUPPORT


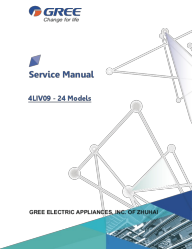
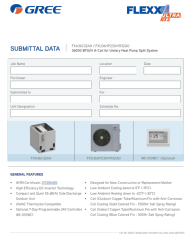



Gree provides a limited warranty for this product.

- **Parts Warranty:** 5 Years
- **Compressor Warranty:** 7 Years
- **Warranty Eligibility:** Installation must be performed by a state-licensed HVAC contractor to be eligible for warranty coverage.

For technical support, warranty claims, or service inquiries, please contact your installing HVAC contractor

or the Gree customer support line. Refer to your purchase documentation for specific contact details.

Related Documents - MULTI42CDUCT500

	<p>GREE Sapphire Air Conditioner: Installation, Service & Troubleshooting Guide</p> <p>Comprehensive guide for GREE Sapphire air conditioners (SAP09HP230V1AH, SAP09HP230V1AO, SAP12HP230V1AH, SAP12HP230V1AO), covering installation, maintenance, troubleshooting, and technical specifications. Includes detailed diagrams, performance data, and operational information.</p>
	<p>GREE 4LIV Series Service Manual</p> <p>Comprehensive service manual for GREE 4LIV series air conditioning units, detailing installation, maintenance, troubleshooting, and technical specifications for models including 4LIV09, 4LIV12, 4LIV18, and 4LIV24.</p>
	<p>GREE FLEXX ULTRA R32 Heat Pump Submittal Data & Specifications</p> <p>Detailed submittal data, specifications, dimensions, and clearance requirements for the GREE FLEXX ULTRA R32 36000 BTU/H A-Coil Unitary Heat Pump Split System (FXA36C32AH / FXU36HP230V1R32AO).</p>
	<p>Gree Livo GEN4 Heat Pump Owner's Manual</p> <p>Comprehensive owner's manual for Gree Livo GEN4 heat pump indoor units, covering installation, operation, maintenance, troubleshooting, and energy-saving tips. Includes model details and safety precautions.</p>
	<p>GREE FLEXX ULTRA R32 A-Coil Unitary Heat Pump Submittal Data and Specifications</p> <p>Detailed submittal data, specifications, dimensions, and installation clearances for the GREE FLEXX ULTRA R32 A-Coil Unitary Heat Pump Split System (FXA48C32AH / FXU60HP230V1R32A0), featuring 48000 BTU/H capacity.</p>
	<p>GREE+ App and Universal WiFi Installation and Operation Manual</p> <p>A comprehensive guide for installing and operating the GREE+ smartphone application to control Gree Heat Pump and Air Conditioner systems via WiFi. Learn about setup, features, modes, and troubleshooting for your smart HVAC system.</p>

