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GREE MULTI42CFLR303

Gree Multi21+ Tri-Zone Floor/Ceiling Mini Split Air Conditioner Heat Pump

MODEL: MULTI42CFLR303

1. Introduction and Overview

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Gree Multi21+ Tri-Zone Floor/Ceiling Mini Split Air Conditioner Heat Pump. This system is designed to provide heating and cooling for up to three separate zones, utilizing Gree's G10 inverter technology for energy efficiency and consistent temperature control. The indoor units offer flexible installation options, suitable for both floor-level mounting and ceiling suspension.

Image 1.1: Key features and certifications of the Gree Multi21+ system, including 5-year parts warranty, R410A refrigerant, heating & cooling capability, ETL listing, G10 Inverter Technology, AHRI certification, and Energy Star rating (except 42k model).

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. Keep this manual for future reference.

- **Professional Installation Required:** Installation, maintenance, and repair of this equipment must be performed by a qualified, licensed HVAC technician. Improper installation can lead to electric shock, fire, water leakage, and void the product warranty.
- **Electrical Safety:** Ensure the unit is properly grounded and connected to a dedicated power supply with appropriate circuit protection. Do not operate with wet hands.
- **Refrigerant Handling:** This system uses R410A refrigerant. Only qualified personnel should handle refrigerant.
- **Clearances:** Maintain adequate clearances around both indoor and outdoor units for proper airflow and service access.
- **Proposition 65 Warning:** This product may expose you to chemicals 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.

3. Product Components

Your Gree Multi21+ Tri-Zone system includes the following main components:

- **Outdoor Condensing Unit:** The primary unit responsible for heat exchange.
- **Indoor Floor/Ceiling Units (x3):** Distribute conditioned air within each zone.
- **Remote Controls:** For operating each indoor unit.

Image 3.1: Gree Floor/Ceiling indoor unit shown with its wired and wireless remote controls.

Image 3.2: Gree Multi-Zone outdoor condensing unit, featuring the inverter technology.

4. Setup and Installation

Installation of this multi-zone mini-split system is complex and requires specialized tools and knowledge. It must be performed by a state-licensed HVAC contractor to ensure proper function, safety, and warranty eligibility.

- **Site Selection:** Choose appropriate locations for the outdoor unit and each indoor unit, considering airflow, drainage, and structural support.
- **Mounting:** Indoor units can be mounted low on a wall or suspended from the ceiling. Ensure secure fastening according to manufacturer guidelines.
- **Line Set Connection:** The system requires 1/4" x 3/8" line sets (x2) for refrigerant connections, which are not included and must be purchased separately.
- **Electrical Wiring:** Proper electrical connections must be made by a qualified electrician, adhering to all local codes and regulations. The unit operates on 208/230V.
- **Vacuum and Refrigerant Charging:** The refrigerant lines must be evacuated to a deep vacuum before releasing refrigerant. This step is critical for system performance and longevity.

5. Operating Instructions

Each indoor unit is controlled independently via its dedicated remote control. Refer to the specific remote control manual for detailed button functions and display indicators.

- **Power On/Off:** Press the power button on the remote to turn the unit on or off.
- **Mode Selection:** Select desired operating mode (Cool, Heat, Fan, Dry, Auto) using the mode button.
- **Temperature Adjustment:** Use the up/down arrows to set the desired temperature for each zone. The G10 inverter technology will maintain this temperature steadily.
- **Fan Speed:** Adjust fan speed (Auto, Low, Medium, High) as needed.
- **Timer Function:** Program the unit to turn on or off at specific times.
- **Multi-Zone Control:** Each indoor unit can be set to a different mode and temperature, allowing customized comfort in up to three zones.

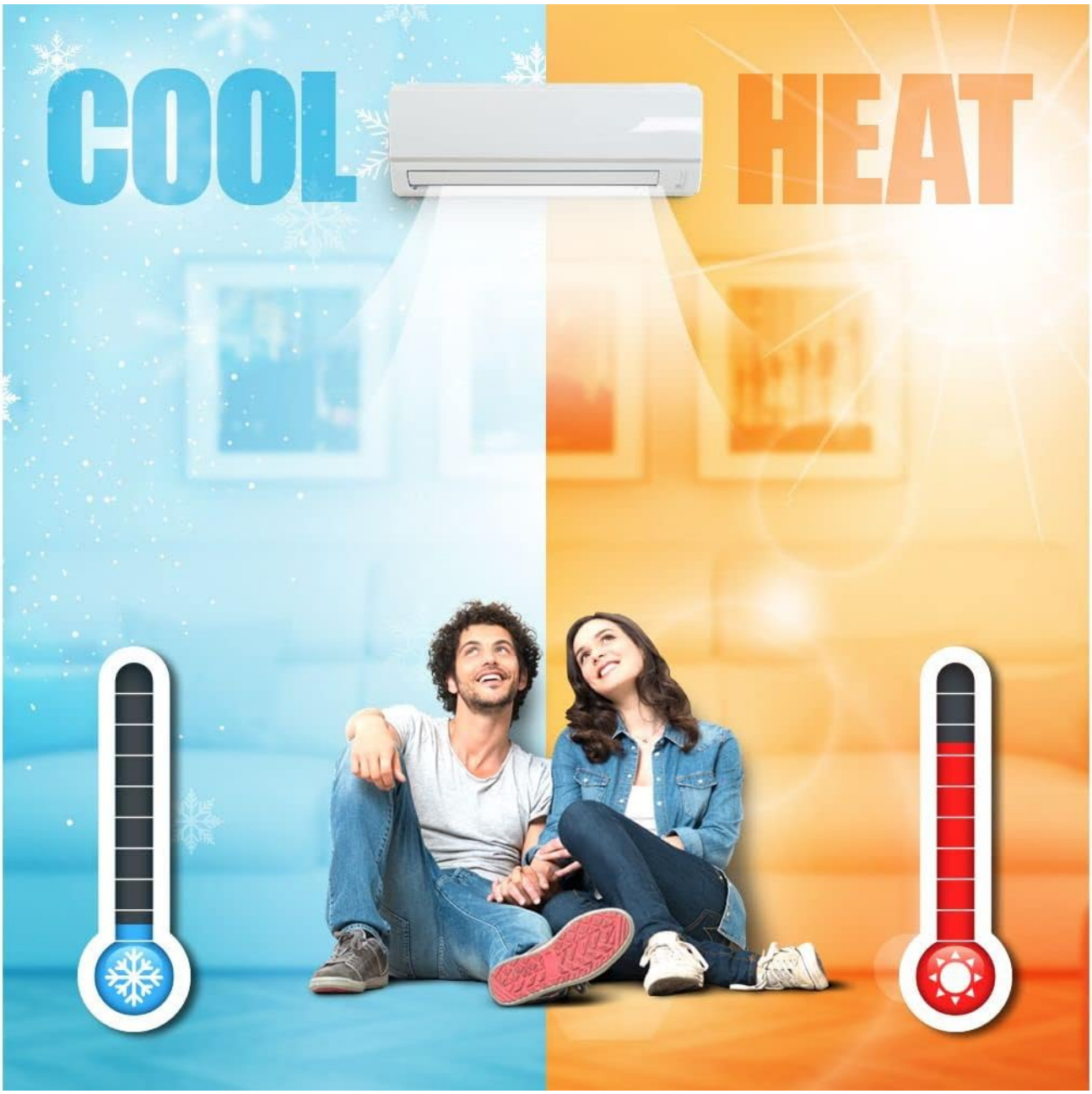

Image 5.1: Illustration of the system's dual cooling and heating capabilities.

Gree Floor Ceiling

INDOOR UNITS	MEASUREMENT (WxHxD)
9,000 BTU	48" x 27.6" x 8.9"
12,000 BTU	48" x 27.6" x 8.9"
18,000 BTU	48" x 27.6" x 8.9"
24,000 BTU	48" x 27.6" x 8.9"

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 5.2: Example of multi-zone temperature control within a floor plan, demonstrating independent temperature settings for different areas.

6. Maintenance

Regular maintenance is crucial for the efficiency and longevity of your mini-split system. Always disconnect power before performing any maintenance.

- **Air Filter Cleaning:** Clean the indoor unit's air filters every 2-4 weeks, or more frequently depending on usage and air quality. Wash with mild detergent and water, then dry completely before reinstalling.
- **Outdoor Unit Cleaning:** Keep the outdoor unit free from debris, leaves, and obstructions. Periodically clean the outdoor coil with a soft brush or water spray.
- **Drainage Check:** Ensure the condensate drain lines are clear and free-flowing to prevent water leaks.
- **Professional Inspection:** Schedule annual professional maintenance with a licensed HVAC technician to check refrigerant levels, electrical connections, and overall system performance.

7. Troubleshooting

Before contacting service, review the following common issues and solutions. For complex problems, always consult a licensed HVAC technician.

Problem	Possible Cause	Solution
Unit does not turn on	No power, circuit breaker tripped, remote control batteries dead	Check power supply, reset breaker, replace remote batteries
Insufficient cooling/heating	Dirty air filters, blocked outdoor unit, incorrect mode setting, low refrigerant	Clean filters, clear obstructions, verify mode, contact technician for refrigerant check
Water leakage from indoor unit	Clogged drain line, improper installation	Clear drain line, contact technician for inspection
Unusual noise	Loose parts, fan obstruction, compressor issue	Inspect for loose parts, clear obstructions, contact technician

8. Specifications

Detailed technical specifications for the Gree Multi21+ Tri-Zone Floor/Ceiling Mini Split Air Conditioner Heat Pump, Model MULTI42CFLR303.

Specification	Value
Brand	GREE
Model Info	MULTI42CFLR303
Capacity	42,000 BTU (3.5 Tons)
Cooling Power	42000 British Thermal Units
Seasonal Energy Efficiency Ratio (SEER)	21
Voltage	230 Volts (208/230V)
Refrigerant	R 410A
Item Weight	198 pounds
Product Dimensions	17 x 42 x 43 inches
Installation Type	Split System
Material Type	Steel
Special Feature	Eco-friendly, Lightweight

MODELS		FLR09HP230V1AF	FLR12HP230V1AF	FLR18HP230V1AF	FLR24HP230V1AF
System Type		Heat Pump			
SYSTEM PERFORMANCE					
Cooling Capacity (Min-Max)	Btu/h	8,500 (5,460-14,300)	11,900 (6,100-15,300)	17,000 (7,500-24,200)	22,800 (8,200-31,000)
Heating Capacity (Min-Max)	Btu/h	9,500 (5,100-10,900)	13,100 (6,800-13,600)	18,700 (6,800-22,200)	27,400 (7,500-28,200)
Airflow (max)	CFM	265/383	265/383	294/559	412/736
Sound Level (min-max)	dB(A)	3[illegible]	[illegible]0	40/45	44/48
Unit Dimensions (WxHxD)	in	48.0 x 27.6 x 8.9	48.0 x 27.6 x 8.9	48.0 x 27.6 x 8.9	48.0 x 27.6 x 8.9
Package Dimensions (WxHxD)	in	53 x 32 x 12.5	53 x 32 x 12.5	53 x 32 x 12.5	53 x 32 x 12.5
Weight (Net/Gross)	lbs	88.0/110.0	88.0/110.0	88.0/110.0	99.0/118.8
INSTALLATION					
Line Set Size (Liquid - Gas)	in	1/4 - 3/8	1/4 - 3/8	1/4 - 1/2	3/8 - 5/8

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Image 8.1: Detailed specifications table for Gree Floor/Ceiling indoor units, including cooling/heating capacity, airflow, sound level, and dimensions.

Gree Floor Ceiling

INDOOR UNITS	(W x H x D) MEASUREMENT
9,000 BTU	48" x 27.6" x 8.9"
12,000 BTU	48" x 27.6" x 8.9"
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Image 8.2: Measurement table for various BTU capacities of Gree Floor/Ceiling indoor and outdoor units.

9. Warranty Information

Your Gree Multi21+ Tri-Zone system comes with a manufacturer's warranty:

- **Parts Warranty:** 5 Years
- **Compressor Warranty:** 7 Years

Important Note: To be eligible for this warranty, installation must be performed by a state-licensed HVAC contractor. Any issues arising from improper installation by an unlicensed individual may void the warranty.

10. Support and Contact

For technical assistance, warranty claims, or service inquiries, please contact your installing HVAC contractor or the authorized Gree distributor from whom you purchased the unit. Ensure you have your model number (MULTI42CFLR303) and proof of purchase readily available.