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

GREE MULTI30CVIR400

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Model: MULTI30CVIR400

1. INTRODUCTION

Thank you for choosing the Gree Multi21+ Quad-Zone Wall Mount Mini Split Air Conditioner Heat Pump. This system is designed to provide efficient and comfortable heating and cooling for up to four independent zones in your home or office. Featuring Gree's advanced G10 inverter technology and eco-friendly R410A refrigerant, this unit offers superior energy savings, reduced noise levels, and precise temperature control.

This manual provides essential information for the safe installation, operation, and maintenance of your new air conditioning system. Please read it thoroughly before installation and keep it for future reference.

2. SAFETY INFORMATION

Important Safety Instructions:

- Installation must be performed by a state-licensed HVAC contractor to ensure proper function and warranty eligibility.
- Always disconnect power to the unit before performing any maintenance or service.
- Do not attempt to repair or modify the unit yourself. Refer all servicing to qualified personnel.
- Ensure proper grounding to prevent electrical shock.
- Keep children and pets away from the outdoor unit during operation.
- Do not block air inlets or outlets of either indoor or outdoor units.

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

3. PRODUCT COMPONENTS

The Gree Multi21+ Quad-Zone system includes the following main components:

- **Outdoor Condensing Unit:** The primary unit responsible for heat exchange.

- **Indoor Wall-Mounted Units (x4):** Distribute conditioned air within each zone.
- **Remote Controls (x4):** For individual control of each indoor unit.



Figure 3.1: Overview of the Gree Multi21+ Quad-Zone Mini Split System, showing the outdoor condensing unit, four indoor wall-mounted units, and four individual remote controls.



Figure 3.2: A single Gree indoor wall-mounted unit displayed with its corresponding remote control.

4. SETUP AND INSTALLATION

Professional Installation Required: For optimal performance, safety, and warranty eligibility, the installation of this Gree Multi21+ system must be performed by a state-licensed HVAC contractor.

Pre-installation Considerations:

- Ensure adequate space for both indoor and outdoor units, allowing for proper airflow and maintenance access.
- Verify electrical supply meets the 208/230V requirement.
- Line sets (1/4" x 3/8" x4) are required but not included with the system.

Your licensed HVAC contractor will handle the following steps:

1. Mounting of indoor units in desired zones.
2. Installation of the outdoor condensing unit.
3. Connecting refrigerant line sets between indoor and outdoor units.
4. Electrical wiring and power connection.
5. Vacuuming the refrigerant lines and charging the system with R410A refrigerant.
6. Testing the system for proper operation.

5. OPERATING INSTRUCTIONS

Each indoor unit is controlled by its dedicated remote control. The remote allows you to adjust settings for the specific zone it is paired with.



Figure 5.1: Detailed view of the Gree remote control, showing its buttons for mode selection, fan speed, temperature adjustment, and other functions.

5.1 Remote Control Functions

- **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, Medium, High).
- **Temperature Buttons (▲/▼):** Increases or decreases the set temperature.
- **Swing Button:** Controls the vertical louver movement for air distribution.
- **Sleep Button:** Activates sleep mode for quiet operation and energy saving during sleep.
- **Timer ON/OFF:** Sets a timer for the unit to turn ON or OFF automatically.
- **iFeel Button:** Activates the 'iFeel' function, which senses the temperature at the remote control's location for more precise comfort.
- **X-FAN Button:** Activates the X-FAN function to dry the indoor coil after cooling operation, preventing mold and odors.

5.2 Operating Modes

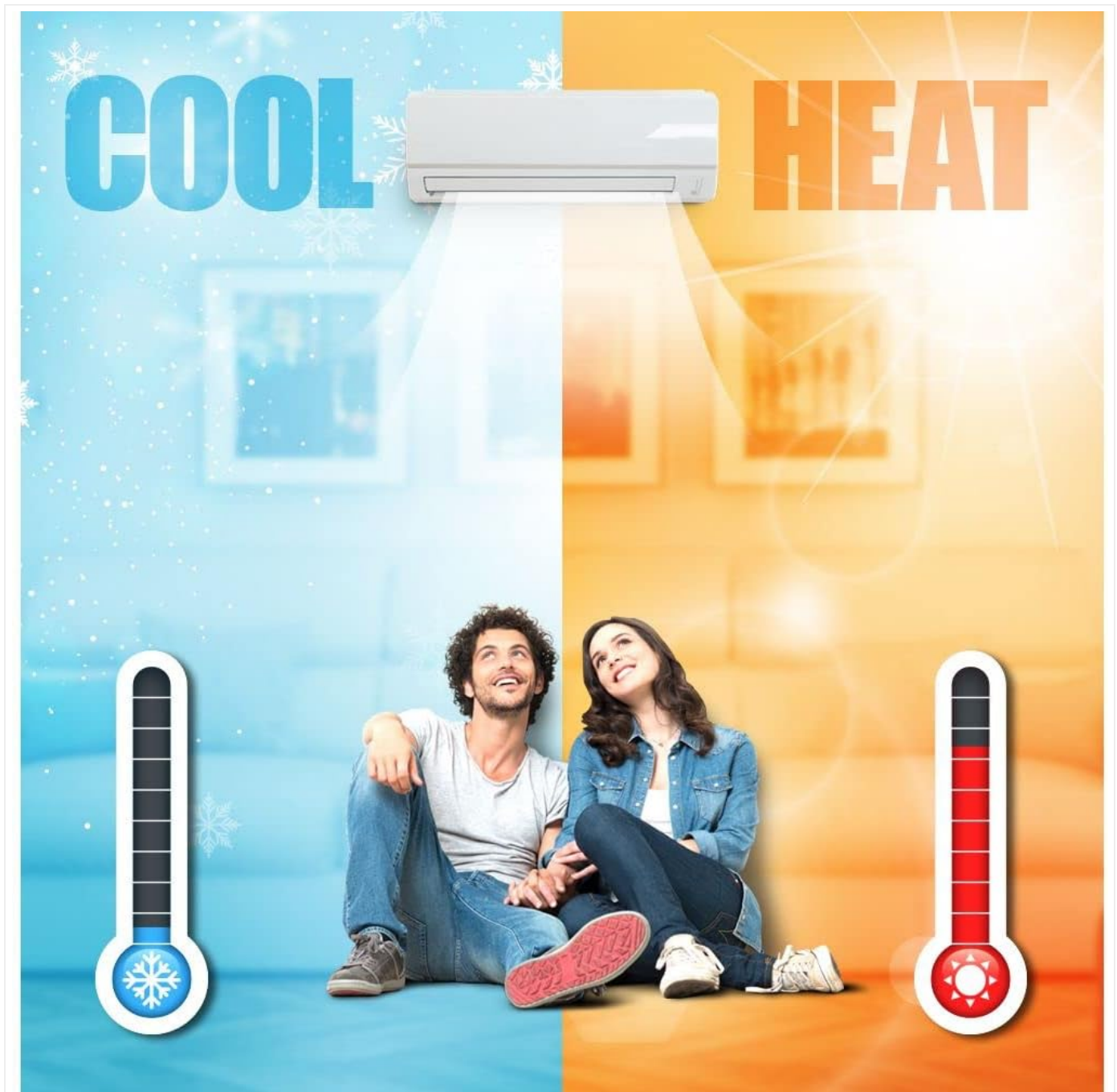


Figure 5.2: Visual representation of the system's dual cooling and heating capabilities, highlighting comfort in different temperature conditions.

- **Cool Mode:** For cooling the room. Set desired temperature.
- **Heat Mode:** For heating the room. Set desired temperature.
- **Dry Mode:** Reduces humidity in the room.
- **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.

5.3 Wi-Fi Connectivity (Optional)

The Multi21+ Vireo Wall Mount is Wi-Fi capable. A field-installed Wi-Fi kit accessory (sold separately) is required to enable remote control of the unit via your smartphone. Refer to the Wi-Fi kit's specific instructions for setup and operation.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Gree Mini Split system. Always disconnect power before performing maintenance.

6.1 Air Filter Cleaning

The indoor unit's air filters should be cleaned every two weeks or more frequently depending on usage and air quality.

1. Open the front panel of the indoor unit.
2. Remove the air filters.
3. Clean the filters using a vacuum cleaner or wash them with lukewarm water and mild detergent.
4. Allow filters to dry completely before reinstalling.
5. Close the front panel.

6.2 Outdoor Unit Maintenance

The outdoor unit should be inspected periodically for debris, leaves, or other obstructions that may block airflow. Gently clean the coils with a soft brush or water hose. Ensure the area around the outdoor unit is clear.

6.3 Professional Servicing

It is recommended to have a licensed HVAC technician perform an annual check-up and professional cleaning of your system to ensure optimal performance and identify any potential issues.

7. TROUBLESHOOTING

If you encounter issues with your Gree Mini Split system, refer to the common problems and solutions below. If the problem persists, contact a licensed HVAC technician.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Remote control batteries dead; Circuit breaker tripped.	Check power connection; Replace remote batteries; Reset circuit breaker.
Insufficient cooling/heating	Dirty air filters; Blocked outdoor unit; Incorrect mode setting; Low refrigerant.	Clean air filters; Clear obstructions from outdoor unit; Select correct mode; Contact technician for refrigerant check.
Unusual noise	Loose parts; Obstruction in fan; Normal operating sounds (e.g., refrigerant flow).	Check for loose parts; Remove obstructions; If noise is excessive, contact technician.

Problem	Possible Cause	Solution
Water leakage from indoor unit	Clogged drain pipe; Improper installation.	Check and clear drain pipe; Contact technician for inspection.

8. SPECIFICATIONS

Detailed technical specifications for the Gree Multi21+ Quad-Zone Mini Split System (Model: MULTI30CVIR400).

Attribute	Value
Model Number	MULTI30CVIR400
Cooling Capacity	30,000 BTU
Heating Capacity	Equivalent to Cooling Capacity (Heat Pump)
SEER (Seasonal Energy Efficiency Ratio)	21.6
Voltage	208/230 Volts
Refrigerant	R 410A (Eco-friendly)
Form Factor	Wall-mounted (Indoor Units)
Special Features	G10 Inverter Technology, Wi-Fi Capable (Kit Sold Separately), Eco-friendly
BEE Star Rating	Yes
Product Dimensions (Outdoor Unit)	17 x 38 x 31 inches
Item Weight (Outdoor Unit)	146 pounds

Vireo+ Multi

INDOOR UNITS

(WxHxD) 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"

Figure 8.1: Detailed measurements for various BTU capacities of Vireo+ Multi indoor and outdoor units.

9. WARRANTY AND SUPPORT

Manufacturer's Warranty:

- 5 Year on parts.
- 7 Years on the compressor.

Important Warranty Condition: Please note that installation must be performed by a state-licensed HVAC contractor in order to be eligible for the manufacturer's warranty.

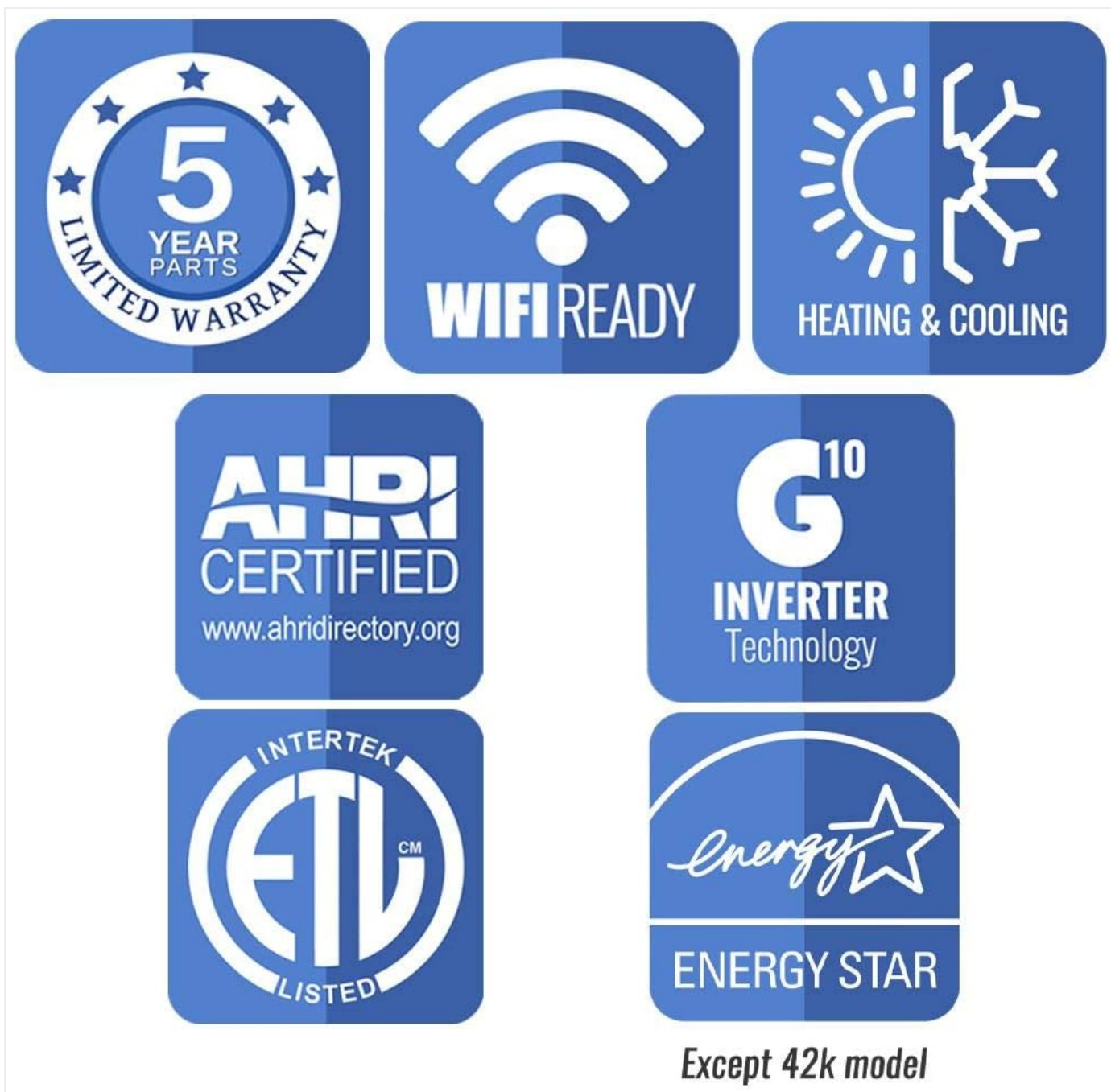


Figure 9.1: Key features and certifications including warranty details, Wi-Fi readiness, and energy efficiency.

9.1 Customer Support

For technical support, warranty claims, or service inquiries, please contact your licensed HVAC installer or the Gree customer service department. Refer to the contact information provided with your purchase documentation or visit the official Gree website.