

GREEN GT790

User Manual for GREEN GT790 12V Electric A/C Unit

Model: GT790 | Brand: GREEN

INTRODUCTION

The GREEN GT790 is a 100% electric, self-contained air conditioning unit designed for use in heavy, medium, and light-duty trucks, as well as construction and agricultural cabs. This innovative system integrates a condenser, compressor, and evaporator core into a single unit, providing efficient thermal comfort without relying on the vehicle's engine for power. It operates on 12 volts and delivers up to 12,000 BTU of cooling capacity.

SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, injury, or death.

- Ensure the unit is installed by a qualified professional to prevent electrical hazards and ensure proper functioning.
- Always disconnect power before performing any maintenance or service.
- Do not block air inlets or outlets on either the indoor or outdoor unit.
- Verify that the power supply matches the unit's requirements (12V, 30/40 amps).
- Keep the unit away from flammable materials and sources of heat.
- Ensure proper ventilation around the outdoor unit.

PRODUCT COMPONENTS OVERVIEW

The GREEN GT790 system consists of two primary units and essential accessories:

- Outdoor Unit (Red):** Contains the condenser, compressor, and fan. Dimensions: 18 x 23 x 8 inches.
- Indoor Unit (White):** Contains the evaporator core, fan, and control panel. Dimensions: 18 x 12 x 6 inches.
- Remote Control:** For convenient operation of the unit.
- Connecting Hoses and Wiring:** Required for linking the indoor and outdoor units and connecting to the power supply.



Figure 1: Complete GREEN GT790 Electric A/C Unit, showing both the red outdoor unit and the white indoor unit.



Figure 2: Front view of the red outdoor unit, highlighting the fan and "100% Electric GT790" branding.



Figure 3: Top view of the white indoor unit, displaying the control panel with temperature, on/off, and speed buttons, along with five adjustable air vents.



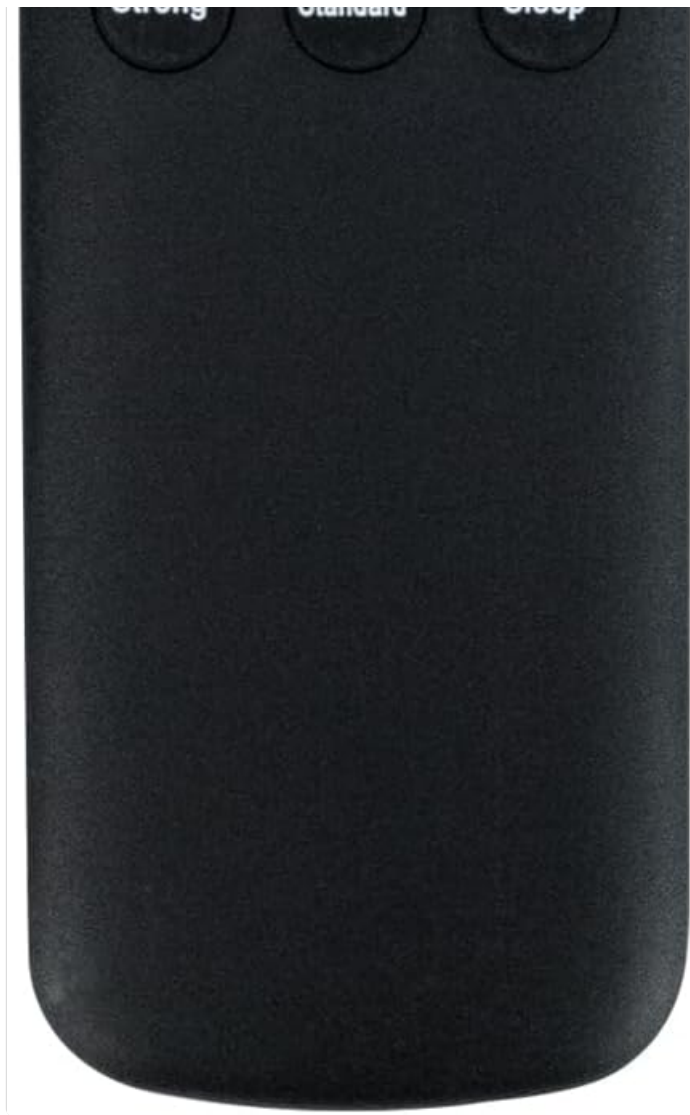


Figure 4: The remote control for the GT790 A/C unit, featuring buttons for power, swing flap, temperature adjustment, speed control, and mode selection (Strong, Standard, Sleep).



Figure 5: The connecting hoses and electrical wiring harness, essential for linking the indoor and outdoor units and providing power.

SETUP AND INSTALLATION

The GT790 is a split system and requires professional installation. The following are general guidelines and critical steps:

1. **Site Selection:** Choose appropriate locations for both the outdoor (red) and indoor (white) units. Ensure adequate space for airflow and maintenance. The outdoor unit is typically mounted externally, and the indoor unit within the cab.
2. **Mounting:** Securely mount both units using appropriate hardware for the vehicle type. Ensure the mounting surfaces are strong enough to support the unit's weight (outdoor unit approx. 66.1 lbs).
3. **Refrigerant Line Connection:** Connect the refrigerant lines between the indoor and outdoor units. Ensure all connections are tight and leak-free.
4. **Electrical Connection:** Connect the unit to a 12V DC power source capable of supplying 30-40 amps. Ensure proper wiring polarity and secure connections. It is recommended to connect directly to the battery with appropriate fusing.
5. **Add Refrigerant Oil:** *Before initial operation, it is crucial to add the proper amount of refrigerant oil to the system.* Consult the specific installation guide provided with your unit for the correct type and quantity of oil. Failure to do so will void the warranty and can cause severe damage to the compressor.
6. **Vacuum and Charge:** After connecting the refrigerant lines, the system must be evacuated to remove air and moisture,

then charged with the correct type and amount of refrigerant. This step requires specialized equipment and expertise.

7. **Test Run:** After installation and charging, perform a test run to ensure all functions are operating correctly and there are no leaks.

For detailed installation diagrams and specific instructions, refer to the comprehensive installation manual included with your purchase.

OPERATING INSTRUCTIONS

The GREEN GT790 can be operated via the control panel on the indoor unit or the included remote control.

Using the Control Panel (Indoor Unit)

The indoor unit features a digital display and several buttons for direct control:

- **Power Button:** Press to turn the unit ON or OFF.
- **Temperature Buttons (+/-):** Adjust the desired temperature setting.
- **Speed Button:** Cycle through fan speed settings (e.g., Low, Medium, High).
- **Mode Button:** Select operating modes (if available, typically cooling only for this model).

Using the Remote Control

The remote control provides full functionality from a distance:

- **Power Button ():** Turns the unit ON or OFF.
- **Temp+ / Temp-:** Increases or decreases the set temperature.
- **Speed+ / Speed-:** Adjusts the fan speed.
- **Swing Flap:** Activates or deactivates the 4-way swing function for air distribution.
- **Mode Buttons (Strong, Standard, Sleep):** Select pre-set operating modes for different comfort levels.

Ensure the remote control has fresh batteries and is pointed towards the indoor unit for optimal signal reception.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your GT790 A/C unit.

- **Clean Air Filters:** The indoor unit has air filters that should be cleaned regularly (e.g., monthly or as needed, depending on usage and environment). Remove the filters, wash them with mild soap and water, rinse thoroughly, and allow them to dry completely before reinserting.
- **Check Condenser Coils (Outdoor Unit):** Periodically inspect the condenser coils on the outdoor unit for dirt, leaves, or other debris. Clean them gently with a soft brush or vacuum cleaner. A clean coil ensures efficient heat exchange.
- **Inspect Drainage:** Ensure the condensate drain line from the indoor unit is clear and free of obstructions to prevent water leaks.
- **Check Electrical Connections:** Annually, or if you notice any issues, have a qualified technician inspect all electrical connections for tightness and signs of wear.
- **Refrigerant Oil Level:** While the unit is a sealed system, if any service requiring opening the refrigerant lines is performed, ensure the proper amount of oil is added back into the system. This is typically done by a professional.
- **General Cleaning:** Wipe down the exterior surfaces of both units with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

For any complex maintenance or repairs, it is highly recommended to contact a certified HVAC technician.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; tripped fuse/breaker; remote control batteries dead.	Check power connections; reset fuse/breaker; replace remote control batteries.
Unit is running but not cooling.	Dirty air filters; blocked outdoor unit; low refrigerant; incorrect mode setting.	Clean air filters; clear obstructions from outdoor unit; contact technician for refrigerant check; ensure unit is in cooling mode.
Weak airflow.	Dirty air filters; fan speed set too low; blocked air vents.	Clean air filters; increase fan speed; clear any obstructions from vents.
Unusual noise from unit.	Loose parts; debris in fan; unit not level.	Inspect for loose components; check for debris in fan blades; ensure unit is mounted level. If noise persists, contact support.
Water leaking from indoor unit.	Clogged drain line; improper installation.	Clear the drain line; if problem persists, contact a professional for inspection.

SPECIFICATIONS

Feature	Detail
Brand Name	GREEN
Model Info	GT790
Item Model Number	GT790
Part Number	DS630051
Item Weight	66.1 pounds
Outdoor Unit Dimensions (L x W x H)	18 x 23 x 8 inches
Indoor Unit Dimensions (L x W x H)	18 x 12 x 6 inches
Country of Origin	China
Annual Energy Consumption	950 Watts
Noise Level	33 dB
Installation Type	Split System
Form Factor	Cabinet
Special Features	4 Way Swing
Color	Red (Outdoor Unit)
Voltage	12 Volts
Wattage	950 watts

Feature	Detail
Fuel Type	Electric
Cooling Power	12000 British Thermal Units (BTU)
Included Components	Remote Control

WARRANTY AND SUPPORT

The GREEN GT790 Electric A/C Unit includes a **6-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the unit performs as specified under normal operating conditions.

For technical assistance, troubleshooting, or warranty claims, please contact the seller, Qualy Air. Their support team is committed to providing responsive assistance to resolve any issues you may encounter.

Qualy Air Contact Information: Please refer to your purchase documentation or the seller's information on the platform where you purchased the product for direct contact details.

Note: The warranty may be voided if the unit is not installed by a qualified professional or if proper refrigerant oil is not added prior to initial operation.