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› Goodman 5 Ton 14 SEER Package Air Conditioner - GPC1460H41 User Manual

Goodman GPC1460H41

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Model: GPC1460H41

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your Goodman 5 Ton 14 SEER Package Air Conditioner, model GPC1460H41. This unit is designed for efficient cooling and is a self-contained system.

Key features include:

- Energy-efficient compressor for optimal performance.
- Copper tube/aluminum fin condenser coil for effective heat transfer.
- Totally enclosed, permanently lubricated condenser fan motor for durability.
- Louvered cabinet made of heavy-gauge galvanized steel, providing robust protection for the coil.
- Factory-installed in-line filter drier to ensure system cleanliness.



Figure 1.1: Front view of the Goodman GPC1460H41 Package Air Conditioner. This image shows the exterior casing, fan grille, and Goodman branding.

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your air conditioning unit. This unit must be installed by a qualified HVAC professional.

2.1 Pre-Installation Checks

- Ensure the installation site meets local building codes and regulations.
- Verify electrical supply matches the unit's requirements (208/230V, 1 Phase).
- Confirm adequate space for airflow and maintenance access around the unit.

2.2 Refrigerant and System Configuration

The unit uses R-410A coolant. The system configuration is horizontal. Accessories such as line sets, thermostats, and electric heat kits are sold separately and must be compatible with this unit.



Figure 2.1: Side view of the Goodman GPC1460H41 unit, showing the access panel and louvered sections. This view highlights the robust construction designed to protect internal components.



Figure 2.2: Internal view of the Goodman GPC1460H41, revealing the copper tubing and aluminum fins of the condenser coil, along with other internal components. This illustrates the compact and integrated design.

3. OPERATING INSTRUCTIONS

Once installed by a qualified professional, operating your Goodman package air conditioner is straightforward, primarily managed through your thermostat.

3.1 Initial Startup

After installation, the HVAC technician will perform the initial startup procedure, including checking refrigerant levels and electrical connections. Ensure all access panels are securely closed before operation.

3.2 Thermostat Control

Set your compatible thermostat to the desired temperature. The unit will cycle on and off to maintain the set temperature. For optimal energy efficiency, avoid frequent large temperature adjustments.



Figure 3.1: An internal view of the Goodman GPC1460H41, showcasing the multi-speed blower motor and various electrical components. This highlights the integrated design of the package unit.

4. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Goodman air conditioning unit. It is recommended to have annual professional inspections.

4.1 Coil Cleaning

Periodically inspect the outdoor condenser coil for dirt and debris. Clean the coil as needed to maintain proper airflow and heat exchange. Ensure the unit is powered off before cleaning.

4.2 Filter Drier

The unit comes with a factory-installed in-line filter drier. This component helps protect the refrigerant system from

moisture and contaminants. Its maintenance should be handled by a qualified technician during routine service.



Figure 4.1: A detailed internal view of the Goodman GPC1460H41, showing the intricate wiring and various components, including the blower and electrical board. This illustrates the complexity and integrated nature of the system.

5. TROUBLESHOOTING

Before contacting a service technician, you can perform some basic troubleshooting steps. Always ensure the unit's power supply is off before inspecting any internal components.

5.1 Unit Not Turning On

- Check the thermostat settings to ensure it is set to "Cool" and the desired temperature is below the ambient temperature.
- Verify the circuit breaker for the unit has not tripped.
- Ensure all disconnect switches near the unit are in the "ON" position.

5.2 Insufficient Cooling

- Check for obstructions around the outdoor unit that might restrict airflow to the condenser coil.
- Ensure the air filter in your indoor ductwork is clean and not clogged.
- Verify that all supply and return vents inside your property are open and unobstructed.

If these steps do not resolve the issue, contact a qualified HVAC technician for diagnosis and repair.

6. SPECIFICATIONS

Detailed technical specifications for the Goodman GPC1460H41 Package Air Conditioner.

Specification	Value
Model Number	GPC1460H41
Cooling Capacity	5 Ton
SEER Rating	14 SEER
Refrigerant Type	R-410A
System Configuration	Horizontal
Voltage	208/230V
Phase	1 Phase
Motor Type	Multi-speed blower
Dimensions (L x W x H)	51 x 47 x 42.75 inches
Item Weight	382 pounds

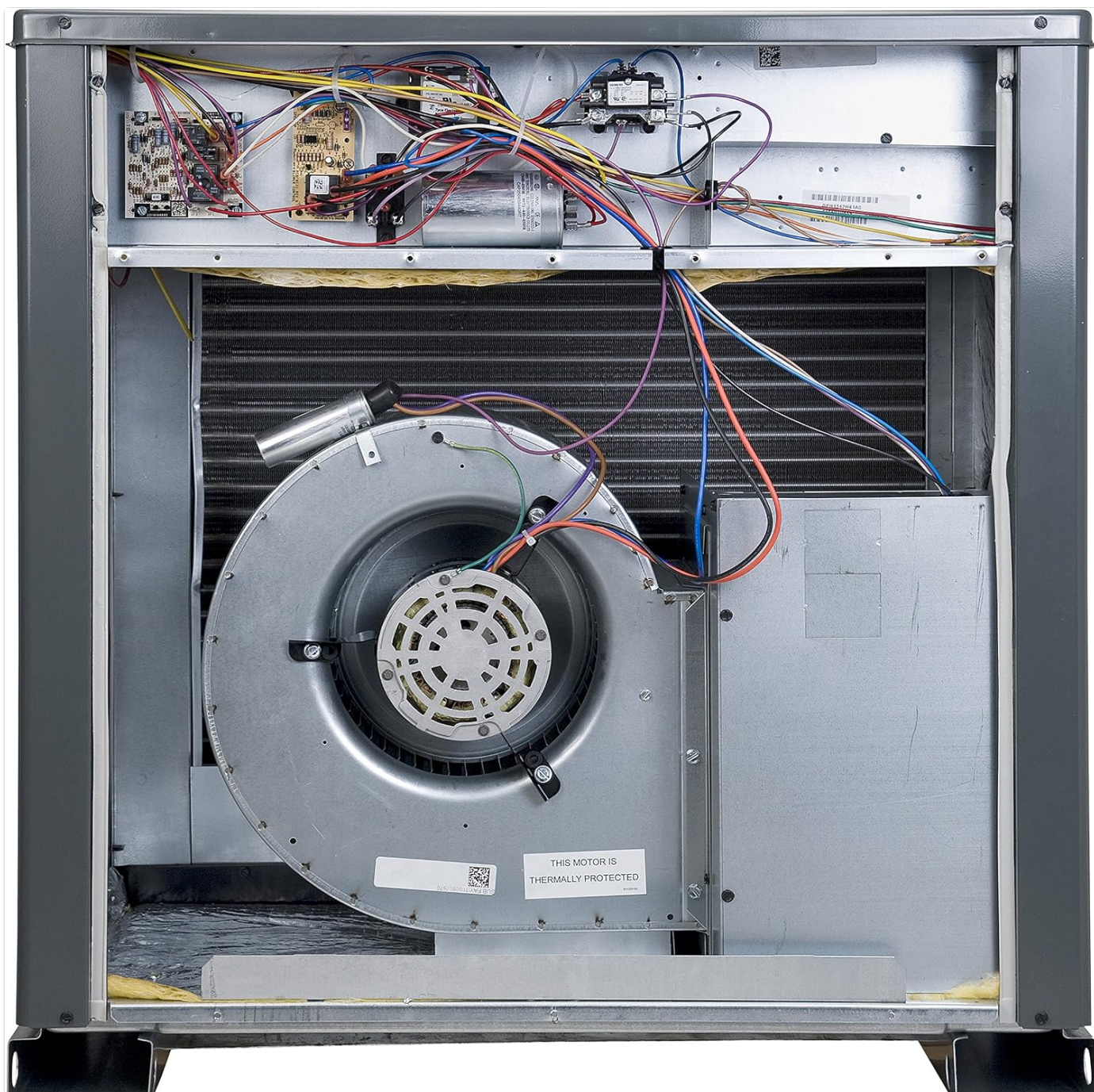


Figure 6.1: Rear view of the Goodman GPC1460H41 unit, displaying the EnergyGuide label and other informational stickers. This provides details on energy efficiency and compliance.

7. WARRANTY AND SUPPORT

7.1 Limited Warranty

This Goodman unit comes with a **10-year parts limited warranty**. This warranty is valid provided the unit is installed by a qualified installer and registered online within 60 days of installation. Please refer to the official Goodman warranty documentation for full terms and conditions.

7.2 Customer Support

For technical assistance, warranty claims, or service inquiries, please contact Goodman customer support or your authorized Goodman dealer. Ensure you have your model number (GPC1460H41) and serial number ready when contacting support.

You can find more information and contact details on the official Goodman website: www.goodmanmfg.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question