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Goodman GPHH34841

Goodman 4 Ton 13.4 SEER2 Horizontal Package Heat Pump (GPHH34841) User Manual

Model: GPHH34841

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman 4 Ton 13.4 SEER2 Horizontal Package Heat Pump, model GPHH34841. Please read this manual thoroughly before attempting any installation, operation, or maintenance procedures. Proper adherence to these instructions will ensure optimal performance and longevity of your unit.

2. PRODUCT OVERVIEW

The Goodman GPHH34841 is a 4-ton, 13.4 SEER2 horizontal package heat pump designed to provide efficient electric heating and cooling for your home or business. This unit combines multiple components into a single, compact system for simplified installation and operation.



Figure 2.1: Front view of the Goodman 4 Ton 13.4 SEER2 Horizontal Package Heat Pump.

Key Features:

- **Energy-Efficient Scroll Compressor:** Designed for reliable and efficient performance.
- **Multi-Speed ECM Indoor Blower Motor:** Provides consistent and efficient airflow.
- **Convertible Airflow:** Supports both horizontal and downflow applications for flexible installation.
- **All-Aluminum Evaporator Coil:** Ensures enhanced durability and performance.
- **Permanently Lubricated Condenser Fan Motor:** Reduces maintenance needs.
- **Louvered Coil Guards:** Protects the coil from damage.
- **Cabinet Air Leakage:** Less than 2.0%, contributing to HVAC performance and efficiency.

3. SAFETY INFORMATION

Your safety and the safety of others are very important. This manual and the appliance itself provide important safety messages. Always read and obey all safety messages.

WARNING:

- Installation and service must be performed by a qualified installer or service agency.
- Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or death.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Always disconnect power to the unit before performing any maintenance or service.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection during installation and servicing.

4. INSTALLATION AND SETUP

This unit is designed for outdoor installation. Due to the complexity of HVAC systems, professional installation by a certified technician is highly recommended to ensure proper function, safety, and warranty compliance.

4.1 Site Selection

- Ensure the unit is placed on a level, stable surface capable of supporting its weight.
- Maintain adequate clearance around the unit for proper airflow and service access.
- Avoid locations where exhaust from the unit could re-enter the building.

4.2 Electrical Connections

All electrical wiring must comply with local codes and national electrical codes (NEC). The unit requires a 240V power supply. An electric heat kit is available as a field-installed option for additional heating capacity.

4.3 Ductwork Connection

The unit features convertible airflow, allowing for either horizontal or downflow ductwork connections. Ensure all ductwork is properly sealed and insulated to prevent air leakage and maximize efficiency.



Figure 4.1: Internal components of the Goodman Package Heat Pump, illustrating the evaporator coil and blower section.

4.4 Video Guide: Packaged Unit in Focus

For a visual overview of Goodman packaged units and their features, please watch the following video:



Video 4.1: An informational video from Furnace Factory Outlet focusing on Goodman packaged units, highlighting various types and features relevant to the GPHH34841 model.

5. OPERATING INSTRUCTIONS

Your Goodman heat pump is controlled by a thermostat (remote control type). Familiarize yourself with your thermostat's operation manual for specific instructions on setting temperatures and modes.

5.1 Modes of Operation

- **Heat Mode:** Provides warmth to your indoor space. The heat pump extracts heat from the outside air and transfers it indoors.
- **Cool Mode:** Provides cooling by removing heat from your indoor space and releasing it outdoors.
- **Fan Mode:** Circulates air without heating or cooling. Useful for improving air circulation.
- **Auto Mode:** Automatically switches between heating and cooling to maintain your desired temperature.

5.2 Setting the Thermostat

Refer to your specific thermostat's user manual for detailed instructions on setting the desired temperature, programming schedules, and selecting operating modes. Ensure the thermostat is set to the appropriate mode (Heat, Cool, or Auto) and temperature for your comfort needs.

6. MAINTENANCE

Regular maintenance is crucial for the efficient and reliable operation of your heat pump. Perform routine checks and cleaning as described below. For complex maintenance, contact a qualified HVAC technician.

6.1 Air Filter Replacement

- Check the air filter monthly, especially during peak operating seasons.
- Replace disposable filters or clean reusable filters as needed (typically every 1-3 months). A dirty filter restricts airflow and reduces efficiency.

6.2 Outdoor Coil Cleaning

- Keep the outdoor unit free from debris, leaves, and grass clippings.
- Periodically clean the outdoor coil fins with a soft brush or hose to ensure proper heat exchange.
- The louvered coil guards help protect the coil from damage.

6.3 Professional Maintenance

Schedule annual professional maintenance with a qualified HVAC technician. They can perform thorough inspections, clean internal components, check refrigerant levels, and ensure all electrical and mechanical parts are functioning correctly.

7. TROUBLESHOOTING

Before calling for service, check the following common issues:

- **Unit Not Operating:**
 - Check if the thermostat is set to the desired mode (Heat/Cool) and temperature.
 - Ensure the circuit breaker for the unit is not tripped.
 - Verify that the outdoor disconnect switch is in the "ON" position.
- **Insufficient Heating/Cooling:**
 - Check and replace dirty air filters.
 - Ensure outdoor coils are clean and free of obstructions.
 - Verify that all supply and return air vents are open and unobstructed.
- **Unusual Noises:**
 - Some operational noises are normal. However, loud or persistent unusual noises may indicate a problem. Contact a qualified technician.

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

8. SPECIFICATIONS

Feature	Detail
Brand	Goodman
Model Number	GPHH34841
Tonnage	4 Ton
Efficiency Rating	13.4 SEER2
Compressor Type	Single Stage Scroll Compressor
Indoor Blower Motor	Multi-Speed ECM
Airflow Configuration	Convertible (Horizontal or Downflow)
Evaporator Coil Material	All-Aluminum
Condenser Coil Material	Copper tube/aluminum fin
Maximum Voltage	240 V
Material Type	Steel
Color	Architectural Gray
UPC	703158723141

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This Goodman GPHH34841 unit typically comes with a **10-year limited parts warranty**. Please refer to the warranty certificate included with your product for full terms, conditions, and registration requirements. Warranty claims usually require proof of professional installation and regular maintenance.

9.2 Customer Support

For technical assistance, warranty inquiries, or to locate a qualified service provider, please contact Goodman customer support or visit their official website. Ensure you have your model number (GPHH34841) and serial number ready when contacting support.