

Goodman GPH1448H41

Goodman 4 Ton 14 SEER Heat Pump Package Unit

Model: GPH1448H41

INTRODUCTION

This instruction manual provides essential information for the safe and efficient operation of your Goodman 4 Ton 14 SEER Heat Pump Package Unit. This unit is designed to provide reliable heating and cooling for your home. Please read this manual thoroughly before installation, operation, or maintenance.

The Goodman GPH1448H41 is an all-in-one outdoor unit, ideal for space-limited homes, featuring a compact, single-box cabinet housing the compressor, coils, and air handler. It is equipped with an energy-efficient scroll compressor, a copper tube/aluminum fin condenser coil, and an all-aluminum evaporator coil.

SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Installation and service must be performed by a qualified installer or service agency.

- Always disconnect power to the unit before performing any service or maintenance.
- Ensure proper grounding to prevent electrical shock.
- Handle refrigerant with care. Only qualified personnel should work with refrigerants.
- Wear appropriate personal protective equipment (PPE) during installation and service.
- Keep children and pets away from the unit during operation and maintenance.

SETUP AND INSTALLATION

The Goodman 4 Ton 14 SEER Heat Pump Package Unit (Model GPH1448H41) is designed for horizontal system configuration. Due to the complexity and safety requirements, **installation must be performed by a qualified HVAC professional.**

Key installation considerations include:

- **Location:** The unit should be placed on a level, stable surface with adequate clearance for airflow and service access.
- **Electrical Connections:** The unit requires 208/230V, 1 Phase electrical supply. All wiring must comply with local and national electrical codes.

- **Ductwork:** Proper sizing and sealing of ductwork are crucial for efficient operation.
- **Refrigerant:** This unit uses R-410A refrigerant. Charging and handling must be done by a certified technician.
- **Accessories:** Linesets, thermostats, and electric heat kits are sold separately and must be installed according to their respective instructions.



Image 1: Goodman 4 Ton 14 SEER Heat Pump Package Unit. This image shows the overall appearance of the outdoor heat pump unit, which is dark gray with a red Goodman logo.

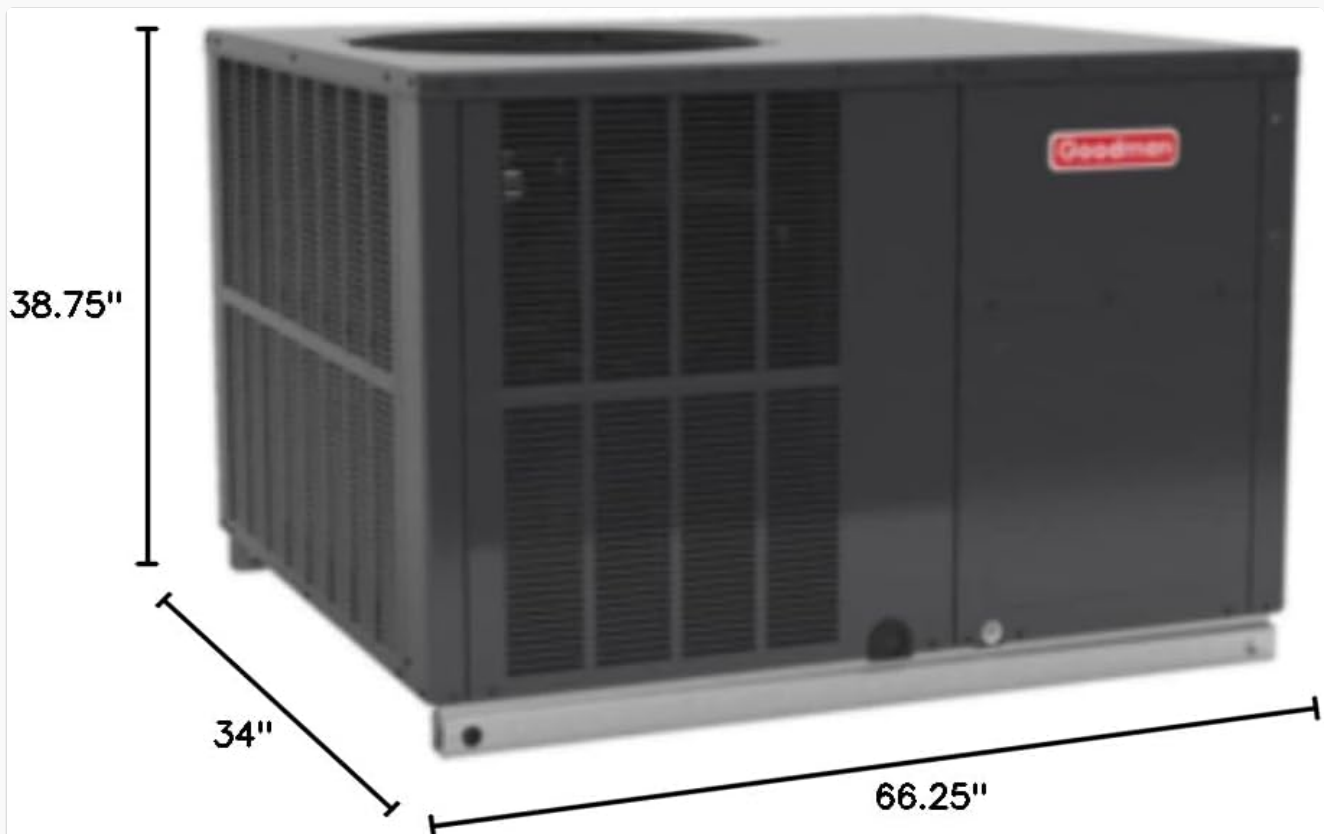


Image 2: Goodman 4 Ton 14 SEER Heat Pump Package Unit with Dimensions. This image illustrates the physical dimensions of the

unit: 34 inches deep, 66.25 inches wide, and 38.75 inches high.

OPERATING INSTRUCTIONS

Once professionally installed, your Goodman Heat Pump Package Unit operates primarily through your home's thermostat. Ensure your thermostat is compatible with a heat pump system.

- **Heating Mode:** Set your thermostat to 'Heat' and select your desired temperature. The unit will activate the heat pump to warm your home.
- **Cooling Mode:** Set your thermostat to 'Cool' and select your desired temperature. The unit will activate the air conditioning function to cool your home.
- **Fan Mode:** You can typically set the fan to 'Auto' (runs only when heating/cooling) or 'On' (runs continuously).
- **Temperature Settings:** Adjust the temperature setting on your thermostat to your comfort level. Avoid frequent, drastic changes to maximize efficiency.

Video 1: Overview of Goodman Package Units. This 15-second video highlights key features of Goodman packaged units, including hassle-free maintenance, economical installation, all-in-one design, efficient compressor, and energy-saving capabilities. It emphasizes their suitability for space-limited homes.

MAINTENANCE

Regular maintenance is crucial for the longevity and efficiency of your heat pump unit. It is recommended to have a qualified HVAC technician perform annual professional maintenance.

- **Air Filter Replacement:** Check and replace or clean the air filter regularly (monthly or as needed) to ensure proper airflow and indoor air quality.
- **Coil Cleaning:** Keep the outdoor condenser coil free of dirt, leaves, and other debris. Gently rinse with a garden hose if necessary. Do not use high-pressure washers.
- **Clearance:** Ensure that there is adequate clearance around the outdoor unit to allow for proper airflow. Trim any overgrown vegetation.
- **Drain Pan and Condensate Drain:** Check and clean the condensate drain pan and line to prevent blockages and water overflow.
- **Electrical Connections:** Have a technician inspect electrical connections annually for tightness and corrosion.

TROUBLESHOOTING

Before calling for service, review the following common issues and their potential solutions. For complex problems, always contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Unit not turning on	No power, tripped breaker, thermostat issue	Check circuit breaker, ensure thermostat is set correctly, verify power supply.
Insufficient heating/cooling	Dirty air filter, blocked outdoor coil, low refrigerant, duct leaks	Replace/clean filter, clear debris from coil, contact technician for refrigerant check/duct inspection.
Unusual noises	Loose parts, motor issues, refrigerant problems	Turn off unit and contact a qualified technician for inspection.

Problem	Possible Cause	Solution
Water leaking	Clogged condensate drain, frozen coil	Clear drain line, check airflow, contact technician if coil is frozen.

SPECIFICATIONS

- **Model Number:** GPH1448H41
- **Brand:** Goodman
- **System Configuration:** Horizontal
- **Coolant:** R-410A
- **Voltage:** 208/230V (1 Phase)
- **Motor Type:** Multi-speed blower
- **Compressor:** Energy-efficient scroll compressor
- **Condenser Coil:** Copper tube/aluminum fin
- **Evaporator Coil:** All-Aluminum
- **Dimensions (D x W x H):** 34" x 66.25" x 38.75"
- **Fuel Type:** Electric
- **Indoor/Outdoor Usage:** Outdoor
- **Mounting Type:** Floor Mount
- **Color:** Gray
- **Special Feature:** Air Purification Filter (Note: This feature may refer to compatibility with external filters, not necessarily an integrated one.)

WARRANTY INFORMATION

This Goodman 4 Ton 14 SEER Heat Pump Package Unit comes with a **10-year parts limited warranty**. To validate this warranty, the unit must be installed by a qualified installer and registered online within 60 days of installation. Please retain your proof of purchase and installation records for warranty claims. For full warranty terms and conditions, refer to the documentation provided with your unit or visit the official Goodman website.

SUPPORT

For technical assistance, service, or parts, please contact your installing HVAC professional. They are best equipped to diagnose and resolve issues related to your specific installation.

You may also visit the official Goodman website for additional resources, product information, and to locate authorized service providers in your area.

Goodman Official Website: www.goodmanmfg.com

© 2024 Goodman Manufacturing Company, L.P. All rights reserved.

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