Goodman seer2

Goodman 2 Ton 17.2 SEER2 Two-Stage Air Conditioner Condenser

Model: 17.2 SEER2 Two-Stage Condenser (Series: SEER2)

User Manual

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Goodman 2 Ton 17.2 SEER2 Two-Stage Air Conditioner Condenser. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent potential hazards. This unit is designed to work as part of a complete split-system air conditioning system.

Figure 1: Goodman 2 Ton 17.2 SEER2 Two-Stage Air Conditioner Condenser. This image shows the outdoor condenser unit, a large rectangular box with a fan grille on top and louvered sides, indicating its function in heat exchange.

2. 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.

- **Electrical Hazard:** Disconnect all power to the unit before servicing. Failure to do so may result in severe injury or death.
- **Refrigerant Hazard:** This unit contains refrigerant. Only qualified personnel should handle refrigerants.
- **Moving Parts:** Keep hands and clothing clear of moving parts, such as the fan, during operation and servicing.
- **Sharp Edges:** Exercise caution when handling the unit due to potential sharp edges on metal components.
- **Professional Installation:** This unit must be installed by a licensed HVAC professional. Attempting self-installation can void the warranty and lead to unsafe conditions.

3. Setup and Installation

Installation of this air conditioning condenser requires specialized tools, knowledge, and training. It must be performed by a qualified HVAC technician in accordance with all local and national building codes and safety regulations.

3.1. Site Selection

The outdoor unit should be placed on a level, stable surface, typically a concrete pad. Ensure adequate clearance around the unit for proper airflow and maintenance access. Avoid locations where debris or snow could obstruct the coils.

3.2. Electrical Connections

All electrical wiring must comply with local codes and the National Electrical Code (NEC). A dedicated, properly sized circuit breaker and disconnect switch are required. Incorrect wiring can lead to electrical shock, fire, or equipment damage.

3.3. Refrigerant Line Connections

Refrigerant lines must be properly sized, evacuated, and charged by a certified technician. Improper handling of refrigerants can harm the environment and damage the unit.

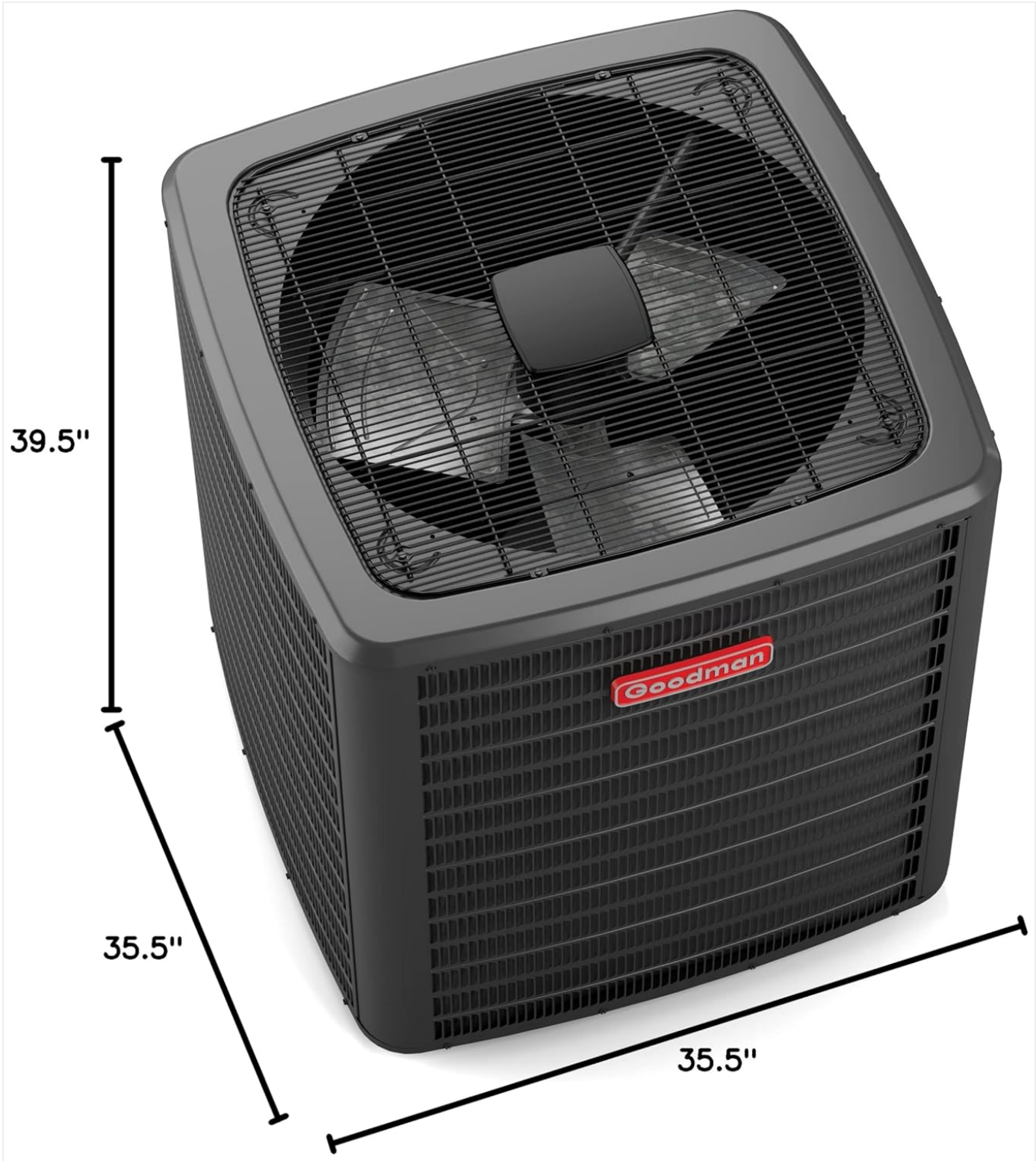

Figure 2: Goodman 2 Ton 17.2 SEER2 Air Conditioner Condenser with dimensions. This image displays the outdoor condenser unit with measurements indicating its height (39.5 inches) and width/depth (35.5 inches), crucial for installation planning.

4. Operating Instructions

Once installed, your air conditioner condenser operates in conjunction with your indoor unit and thermostat. The included thermostat provides control over the system.

4.1. Thermostat Control

Refer to the separate instruction manual provided with your thermostat for detailed operating procedures. Generally, you will use the thermostat to:

- **Select Mode:** Choose between "Cool," "Heat" (if applicable to your indoor unit), "Fan," or "Off."

- **Set Temperature:** Adjust the desired temperature for your space.
- **Fan Settings:** Select "Auto" for the fan to run only when heating or cooling, or "On" for continuous fan operation.

4.2. Two-Stage Operation

This unit features two-stage operation for enhanced efficiency and comfort. In mild conditions, the unit will operate at a lower capacity (first stage) to maintain temperature and dehumidify more effectively. During hotter periods, it will automatically switch to full capacity (second stage) to meet cooling demands. This intelligent operation helps save energy and provides more consistent temperatures.

5. Maintenance

Regular maintenance is crucial for the longevity and efficient operation of your air conditioning system. Always disconnect power to the outdoor unit before performing any maintenance.

5.1. Air Filter Replacement (Indoor Unit)

While this manual focuses on the outdoor condenser, remember to regularly check and replace the air filter in your indoor furnace or air handler. A dirty filter restricts airflow and reduces system efficiency. Refer to your indoor unit's manual for specific filter replacement instructions.

5.2. Outdoor Coil Cleaning

Periodically inspect the outdoor coil for dirt, leaves, and other debris. Use a garden hose to gently rinse the coil from the inside out to remove accumulated dirt. Avoid using high-pressure washers, which can damage the fins. Ensure the area around the unit is clear of vegetation and obstructions.

5.3. Annual Professional Inspection

It is highly recommended to schedule an annual inspection and tune-up by a qualified HVAC technician. They can check refrigerant levels, electrical connections, fan motor, and overall system performance to ensure optimal operation and prevent potential issues.

6. Troubleshooting

Before calling for service, perform the following basic checks. If the problem persists, contact a qualified HVAC technician.

- **No Cooling:**
    - Check if the thermostat is set to "Cool" mode and the desired temperature is below the ambient temperature.
    - Ensure the circuit breaker for the outdoor unit is not tripped.
    - Verify the outdoor disconnect switch is in the "On" position.
- **Weak Airflow:**
    - Check and replace the indoor unit's air filter if it is dirty.
    - Ensure no vents are blocked inside the home.
- **Unusual Noises:**
    - Briefly check for any loose debris around the outdoor unit fan.
    - If noises persist or are loud, turn off the unit and call a technician.
- **Unit Not Turning On:**
    - Confirm power is supplied to both indoor and outdoor units.

- Check thermostat batteries if applicable.

Important: Do not attempt to repair the unit yourself beyond these basic checks. Contact a certified HVAC professional for all repairs.

7. Specifications

Feature	Detail
Brand	Goodman
Model Series	SEER2
Efficiency Rating	17.2 SEER2 (High Efficiency)
Installation Type	Split System
Material Type	Steel
Compressor Type	Scroll
Number of Power Levels	2 (Two-Stage)
Control Method	App Control (via compatible thermostat)

8. Warranty Information

This Goodman Air Conditioner Condenser comes with a**Lifetime Warranty** on the compressor, subject to terms and conditions. Other components may have different warranty periods. To ensure full warranty coverage, the unit must be:

- Installed by a licensed HVAC professional.
- Registered with Goodman within a specified timeframe (typically 60 days of installation).
- Maintained according to manufacturer guidelines.

Please refer to the official Goodman warranty document included with your product or visit the Goodman website for complete details regarding coverage, limitations, and how to register your product.

9. Support and Contact

For technical assistance, warranty claims, or to locate a certified Goodman HVAC professional, please visit the official Goodman website or contact their customer support. Do not attempt to service the unit yourself if you are not a qualified technician.

Goodman Website: www.goodmanmfg.com