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› Goodman CHPTA6030D3 4.0-5.0 TON Horizontal Coil (R-32 Only) Instruction Manual

Goodman CHPTA6030D3

Goodman CHPTA6030D3 4.0-5.0 TON Horizontal Coil Instruction Manual

Model: CHPTA6030D3

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Goodman CHPTA6030D3 4.0-5.0 TON Horizontal Coil. This unit is designed exclusively for use with R-32 refrigerant. Adherence to these instructions is crucial for optimal performance and to maintain warranty validity.

SAFETY INFORMATION

WARNING: Installation and servicing of air conditioning equipment can be hazardous due to system pressure and electrical components. Only qualified, trained, and certified HVAC technicians should install, repair, or service this equipment. Failure to follow this warning could result in property damage, personal injury, or death.

- Always disconnect power before servicing.
- Wear appropriate personal protective equipment (PPE).
- This unit is designed for R-32 refrigerant ONLY. Using any other refrigerant will void the warranty and may cause system failure or safety hazards.
- Ensure proper ventilation during installation and service.
- Follow all local and national electrical and building codes.

PRODUCT OVERVIEW

The Goodman CHPTA6030D3 is a high-efficiency horizontal evaporator coil designed for use in split-system air conditioning and heat pump applications. It features an all-aluminum coil for efficient heat transfer and a rust-resistant thermoplastic drain pan.

Key Features:

- **R-32 Refrigerant Compatibility:** Designed and authorized for use with R-32 refrigerant, which offers improved efficiency. Includes a factory-installed R-32 sensor.

- **Flexible Installation:** Supports horizontal left or horizontal right installations.
- **Durable Drain Pan:** Rust-resistant thermoplastic drain pan with low water-retention design, DecaBDE-free, and secondary drain connection.
- **Internal TXV:** Factory-installed thermal expansion valve compatible with cooling and heat pump applications, ensuring maximum efficiency.
- **All-Aluminum Evaporator Coil:** Efficient heat transfer, cost-effective, with foil-faced insulation to reduce cabinet condensation and thermal loss.



Figure 1: Goodman CHPTA6030D3 Horizontal Coil. This image shows the exterior casing of the coil unit with one side open, revealing the internal aluminum evaporator coil and copper refrigerant lines. The unit is dark gray with copper pipes extending from the bottom left.

SETUP AND INSTALLATION

IMPORTANT: Installation must be performed by a qualified HVAC professional. Incorrect installation can lead to system malfunction, safety hazards, and void the product warranty.

Pre-Installation Checks:

- Verify that the coil model (CHPTA6030D3) matches the system requirements and is compatible with R-32 refrigerant.
- Inspect the unit for any shipping damage. Report any damage immediately.
- Ensure all necessary tools and materials are available.

Installation Steps (Overview):

1. **Positioning:** Place the coil in the designated horizontal airflow path, ensuring proper clearance for maintenance and airflow. The unit supports both horizontal left and horizontal right configurations.
2. **Refrigerant Line Connection:** Connect the refrigerant lines to the factory-installed thermal expansion valve (TXV). Ensure proper brazing techniques are used to prevent leaks.
3. **Drain Pan Connection:** Connect the primary and secondary condensate drain lines to the thermoplastic drain pan. Ensure proper slope for drainage to prevent water accumulation.
4. **Ductwork Connection:** Securely connect the coil to the supply and return ductwork, ensuring an airtight seal.
5. **Electrical Connections:** Connect the R-32 sensor and any other necessary electrical components according to the wiring diagram provided with the outdoor unit.
6. **Leak Testing and Evacuation:** Perform a thorough leak test on all refrigerant connections. Evacuate the system to a deep vacuum to remove non-condensable gases and moisture.
7. **Refrigerant Charging:** Charge the system with R-32 refrigerant according to the manufacturer's specifications for the matched outdoor unit.
8. **System Start-up:** Follow the start-up procedures for the complete HVAC system.

OPERATING INSTRUCTIONS

The Goodman CHPTA6030D3 horizontal coil operates as a component of a larger HVAC system. Its function is to absorb heat from the indoor air (cooling mode) or release heat into the indoor air (heating mode, with a heat pump).

General Operation:

- The coil's operation is controlled by the thermostat and the outdoor unit.
- Ensure the air filter in the indoor air handler is clean to maintain optimal airflow over the coil.
- The R-32 sensor continuously monitors for refrigerant leaks. If a leak is detected, the system may shut down for safety. Consult a qualified technician if this occurs.

MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Goodman coil. All maintenance should be performed by a qualified HVAC technician.

Recommended Maintenance Schedule:

- **Annually (by technician):**
 - Inspect the evaporator coil for dirt and debris. Clean if necessary using appropriate coil cleaner.
 - Check the condensate drain pan and lines for blockages and ensure proper drainage. Clean any algae or sludge buildup.
 - Inspect refrigerant lines for leaks or damage.
 - Verify the R-32 sensor is functioning correctly.
- **Monthly (user):**

- Inspect and replace or clean the air filter in your indoor air handler. A dirty filter restricts airflow and reduces coil efficiency.

TROUBLESHOOTING

This section provides general troubleshooting tips. For complex issues, always contact a qualified HVAC technician.

Common Issues and Solutions:

Problem	Possible Cause	Solution
Poor Cooling/Heating Performance	Dirty air filter; Dirty coil; Low refrigerant charge; Airflow obstruction.	Check/replace air filter. Have technician inspect and clean coil, check refrigerant levels, and ensure proper airflow.
Water Leaking from Unit	Clogged condensate drain line; Improperly sloped drain pan.	Clear drain line blockage. Ensure drain pan has proper slope. Contact technician if issue persists.
System Shuts Down Unexpectedly	R-32 refrigerant leak detected; Electrical issue; Overheating.	Contact a qualified HVAC technician immediately for diagnosis and repair.

SPECIFICATIONS

The following specifications are for the Goodman CHPTA6030D3 horizontal coil.

Model: CHPTA6030D3

Brand: Goodman

Capacity: 4.0-5.0 TON (4.5 Tons nominal)

Refrigerant Compatibility: R-32 ONLY

Installation Type: Split System, Horizontal (Left or Right)

Coil Type: All-Aluminum Evaporator Coil

Drain Pan: Rust-resistant thermoplastic, DecaBDE-free, low water-retention design

Thermal Expansion Valve (TXV): Factory-installed, internal

Dimensions (Product): 32.5 x 26.5 x 26.5 inches (Length x Width x Height)

Item Weight: 80 pounds

Special Features: R-32 Sensor, Rust Resistant

Efficiency: High Efficiency (SEER 18 with matched outdoor unit)

WARRANTY INFORMATION

This Goodman CHPTA6030D3 unit carries a 10-year parts-only limited warranty.

Warranty Conditions:

- Warranty is valid only if installed by a qualified installer.
- The unit must be registered online within 60 days of installation. (Online registration is not required in California).
- Use of any refrigerant other than R-32 will void the warranty.

- For complete warranty details, please contact Goodman customer support or your authorized dealer.

SUPPORT AND CONTACT

For technical assistance, warranty claims, or to locate a qualified installer, please contact Goodman customer support or visit the official Goodman website.

- **Goodman Website:** www.goodmanmfg.com
- **Customer Service:** Refer to your local Goodman dealer for contact information.

When contacting support, please have your model number (CHPTA6030D3) and serial number ready.

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