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> Goodman CHPTA3630C3 Horizontal Coil User Manual

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Goodman CHPTA3630C3 Horizontal Coil User Manual

Model: CHPTA3630C3 | Brand: Goodman

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Goodman CHPTA3630C3 Horizontal Coil. This unit is designed for use in residential and light commercial HVAC systems.

Important Note: This coil is compatible with R-32 refrigerant ONLY. Use with any other refrigerant will void the product warranty and may lead to system malfunction or damage. An R-32 sensor is factory-installed for the lifespan of the coil. An additional R-32 safety kit is required when used with a non-A2L refrigerant furnace.

2. SAFETY INFORMATION

Please read and understand all safety warnings and instructions before installing or servicing this unit. Failure to follow these instructions could result in property damage, personal injury, or death.

- Installation and service must be performed by a qualified, licensed HVAC technician.
- Always disconnect power to the indoor and outdoor units before performing any maintenance or service.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Handle R-32 refrigerant with care. Refer to local regulations and safety data sheets (SDS) for proper handling procedures.
- Ensure proper ventilation during installation and service.

3. PRODUCT OVERVIEW

The Goodman CHPTA3630C3 is a 2.5-3.0 TON horizontal evaporator coil designed for efficient heat transfer within your HVAC system. Key features include:

- **Enhanced Efficiency:** Optimized for R-32 refrigerant, offering improved efficiency. This coil comes with a factory-installed R-32 sensor designed for its lifespan.
- **Flexible Installation:** Designed for horizontal left or horizontal right configurations.
- **Resilient Construction:** Features a rust-resistant thermoplastic drain pan with a low water-retention design, DecaBDE-free, and includes a secondary drain connection.
- **Internal TXV:** Equipped with a factory-installed thermal expansion valve for maximum efficiency with matched R-32

condensers or heat pumps.

- **All-Aluminum Evaporator Coil:** Provides efficient heat transfer and is covered by foil-faced insulation to reduce cabinet condensation and thermal loss.



Figure 3.1: Interior view of the Goodman CHPTA3630C3 Horizontal Coil, showing the aluminum evaporator fins and copper tubing.

Goodman CHPTA3630C3



Tonnage

2.5 - 3.0

Connections

3/8" x 7/8"

Dimensions

30 x 21 x 21

Weight

70

Orientation

Horizontal

10 PARTS
YEAR LIMITED
WARRANTY*

R32

Figure 3.2: Exterior view of the Goodman CHPTA3630C3 Horizontal Coil unit, illustrating its compact design and key features.

4. INSTALLATION

This section outlines general installation considerations. Always refer to the complete installation instructions provided

with the unit and local building codes.

4.1 Pre-Installation Checks

- Verify that the coil model matches the system requirements (tonnage, refrigerant type).
- Ensure adequate space for installation and future maintenance.
- Confirm that the R-32 safety kit is available if using with a non-A2L refrigerant furnace.

4.2 Coil Placement

The CHPTA3630C3 coil is designed for horizontal airflow applications. It can be installed in either a horizontal left or horizontal right configuration. Ensure the unit is level to allow for proper condensate drainage.

4.3 Refrigerant Line Connections

Connect the refrigerant lines according to standard HVAC practices, ensuring proper brazing and leak testing. The internal TXV is factory-installed and compatible with R-32 systems. Use only R-32 refrigerant.

4.4 Condensate Drain Connection

Connect the primary and secondary condensate drain lines to the rust-resistant thermoplastic drain pan. Ensure proper slope for gravity drainage and install a condensate trap as required by local codes.

5. OPERATING PRINCIPLES

The Goodman CHPTA3630C3 horizontal coil functions as a critical component in a split-system air conditioning or heat pump system. It facilitates the transfer of heat from the indoor air to the R-32 refrigerant, which then carries the heat to the outdoor unit.

- **Cooling Cycle:** Warm indoor air passes over the cold evaporator coil, transferring its heat to the R-32 refrigerant. The cooled air is then circulated back into the conditioned space.
- **Heating Cycle (with Heat Pump):** In heating mode, the coil acts as a condenser, releasing heat from the R-32 refrigerant into the indoor air.

The factory-installed Thermal Expansion Valve (TXV) precisely meters the flow of R-32 refrigerant into the coil, optimizing system efficiency and performance.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your HVAC system, including the evaporator coil. Maintenance should be performed by a qualified technician.

6.1 Coil Cleaning

Over time, dust and debris can accumulate on the evaporator coil fins, reducing heat transfer efficiency. The coil should be inspected and cleaned annually by a professional. Use appropriate coil cleaning solutions and methods to avoid damage to the aluminum fins.

6.2 Drain Pan and Line Maintenance

Inspect the condensate drain pan and lines for blockages, algae growth, or leaks. Clean the drain pan and flush the drain lines regularly to ensure proper condensate removal and prevent water damage.

6.3 Air Filter Replacement

Ensure that the system's air filter is replaced or cleaned regularly according to the manufacturer's recommendations. A dirty air filter restricts airflow, which can negatively impact coil performance and system efficiency.

7. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, always contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Poor Cooling/Heating Performance	Dirty coil fins, restricted airflow, low refrigerant charge, faulty TXV.	Clean coil, replace air filter, have technician check refrigerant levels and TXV.
Water Leaking from Unit	Clogged condensate drain line, cracked drain pan, improper installation slope.	Clear drain line, inspect drain pan, verify unit is level.
Unusual Noises	Loose components, airflow obstruction, refrigerant flow issues.	Inspect for loose parts, clear obstructions, consult technician for refrigerant issues.

8. SPECIFICATIONS

Feature	Detail
Brand	Goodman
Model Number	CHPTA3630C3
Tonnage	2.5 - 3.0 TON
Refrigerant Type	R-32 ONLY
Form Factor	Split System (Horizontal Coil)
Installation Orientation	Horizontal Left or Horizontal Right
Item Weight	72 pounds
Product Dimensions (L x W x H)	32.5 x 26.5 x 23.5 inches
Special Features	Rust Resistant Thermoplastic Drain Pan, Internal TXV, All-Aluminum Evaporator Coil, Factory-Installed R-32 Sensor

9. WARRANTY INFORMATION

This Goodman CHPTA3630C3 coil comes with a**10-year parts only limited warranty**. To qualify for the full warranty, the unit must be installed by a qualified installer and registered online within 60 days of installation. (Online registration is not required in California).

Failure to use R-32 refrigerant exclusively with this unit will result in a voided warranty.



Figure 9.1: Goodman 10-Year Limited Warranty Shield.

For complete warranty details and to register your product, please visit the official Goodman website or contact their customer support. [Goodman Warranty Registration](#)

10. SUPPORT & CONTACT

For technical assistance, service, or further information regarding your Goodman CHPTA3630C3 Horizontal Coil, please contact your authorized Goodman dealer or visit the official Goodman website.

Goodman Manufacturing Company, L.P.

www.goodmanmfg.com

Always provide the model number (CHPTA3630C3) and serial number when contacting support.

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