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› Goodman HKSX05XC 5 kW Heat Kit Instruction Manual

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1. PRODUCT OVERVIEW

The Goodman HKSX05XC 5 kW Heat Kit is designed to provide supplemental heating for HVAC systems. This unit features sequencers for precise temperature control and is engineered for straightforward field installation. It arrives fully assembled and tested, ensuring reliability and ease of integration into compatible equipment. Key design elements include multiple branch circuit capability, control circuitry optimized for staging, and durable rust-resistant nickel chromium heat elements. A plug-in wiring harness facilitates quick and secure electrical connections.



Image 1.1: The Goodman HKSX05XC 5 kW Heat Kit, featuring its metal mounting plate and multiple coiled nickel chromium heating elements extending horizontally.

2. SAFETY INFORMATION

WARNING: Installation and servicing of heating equipment can be hazardous due to electrical components. This unit must be installed and serviced by qualified, trained, and experienced HVAC technicians or electricians only. Failure to follow these instructions can result in property damage, personal injury, or death.

- Disconnect all electrical power to the unit before installing or servicing.
- Ensure proper grounding of the unit.
- Verify that the power supply matches the voltage requirements specified on the unit's rating plate.
- Do not operate the unit with damaged wiring.
- Keep combustible materials away from the heat kit.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking:

- Goodman HKSX05XC 5 kW Heat Kit (Model ITBD-261313)
- Installation Guide (this document)

If any items are missing or damaged, contact your supplier immediately.

4. FEATURES

The Goodman HKSX05XC Heat Kit incorporates several features designed for performance and reliability:

- **Multiple Branch Circuit Capability:** Allows for flexible electrical connections.
- **Control Circuitry for Staging:** Arranged to readily permit staging for optimized heating performance and energy efficiency.
- **Rust-Resistant Nickel Chromium Heat Elements:** Ensures durability and long operational life.
- **Plug-in Wiring Harness:** Facilitates ease of installation and secure integration into HVAC equipment.

5. SETUP AND INSTALLATION

Installation of the Goodman HKSX05XC Heat Kit should only be performed by a qualified HVAC technician or electrician. Refer to the specific wiring diagrams provided with your HVAC unit for proper integration.

5.1 Pre-Installation Checks

- Ensure the HVAC unit is powered off at the main breaker.
- Confirm compatibility of the heat kit with your specific HVAC system model.
- Inspect the heat kit for any shipping damage.

5.2 Installation Steps

1. Locate the designated heat kit compartment within your HVAC air handler or furnace.
2. Mount the Goodman HKSX05XC Heat Kit securely using appropriate fasteners.
3. Connect the plug-in wiring harness from the heat kit to the corresponding receptacle in the HVAC unit's control board.
4. Connect any additional branch circuits as required by the HVAC unit's wiring diagram.
5. Verify all electrical connections are tight and secure.
6. Close the access panel of the HVAC unit.

6. OPERATING INSTRUCTIONS

Once installed and all safety checks are complete, the heat kit operates in conjunction with your HVAC system's thermostat and control board.

6.1 Initial Power-Up

1. Restore electrical power to the HVAC unit at the main breaker.
2. Set your thermostat to a heating mode and a temperature setting above the current room temperature to initiate a call for heat.
3. Observe the HVAC system's operation to ensure the heat kit engages correctly and provides supplemental heat.

6.2 Normal Operation

The heat kit will activate automatically when the thermostat calls for auxiliary or emergency heat, typically when the primary heating source (e.g., heat pump) cannot meet the heating demand or during very cold outdoor temperatures. The sequencers manage the activation of the heating elements to maintain desired indoor temperatures efficiently.

7. MAINTENANCE

The Goodman HKSX05XC Heat Kit requires minimal maintenance. Regular inspection by a qualified technician is recommended as part of routine HVAC system servicing.

- **Annual Inspection:** Have a qualified technician inspect the heating elements and wiring connections annually for signs of wear, corrosion, or damage.
- **Cleanliness:** Ensure the area around the heat kit within the HVAC unit remains free of dust and debris to prevent airflow restrictions and potential fire hazards.

CAUTION: Always disconnect power to the HVAC unit before performing any maintenance or inspections.

8. TROUBLESHOOTING

If the heat kit is not functioning as expected, consider the following common issues. For complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Heat kit not activating	No power to the HVAC unit; Thermostat not calling for heat; Faulty wiring connection; Blown fuse or tripped breaker.	Check main power supply; Verify thermostat settings; Inspect wiring harness; Check and reset circuit breakers or replace fuses.
Insufficient heat output	One or more heating elements failed; Incorrect wiring for staging; Airflow restriction.	Have a technician inspect heating elements; Verify wiring against diagram; Check air filters and ducts for obstructions.
Burning smell during initial operation	Dust accumulation on new heating elements.	This is often normal for the first few hours of operation as dust burns off. Ensure adequate ventilation. If smell persists, disconnect power and contact a technician.

9. SPECIFICATIONS

Specification	Detail
Brand	Goodman
Model Number	HKSX05XC
Item Model Number (Internal)	ITBD-261313
Power Output	5 kW
Heating Elements	Rust-resistant nickel chromium
Control Circuitry	Sequencers for staging

Specification	Detail
Installation	Field-installable with plug-in wiring harness
Package Dimensions	14.5 x 9.5 x 8.5 inches
Weight	5 Pounds
Date First Available	September 21, 2017

10. WARRANTY AND SUPPORT

For specific warranty information regarding your Goodman HKSX05XC Heat Kit, please refer to the documentation provided with your complete HVAC system or contact Goodman customer support directly. Keep your purchase receipt and model number handy for any warranty claims or technical assistance.

Goodman Customer Support: Refer to the official Goodman website or your product packaging for the most current contact information.

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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