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> Warren Goodman Amana Janitrol HKR-10A WGO1002 10KW Heat Strip Instruction Manual

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Model: HKR-10A / WGO1002

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Warren Goodman Amana Janitrol HKR-10A WGO1002 10KW Heat Strip. This heat strip is designed to provide auxiliary heating for compatible Goodman, Amana, and Janitrol air handlers and packaged units. Please read this manual thoroughly before proceeding with any procedures.

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, licensed HVAC technician.

- Always disconnect all power to the unit before installing or servicing the heat strip. Failure to do so can result in electrical shock, injury, or death.
- Ensure all wiring connections are secure and comply with local and national electrical codes.
- Do not operate the unit with damaged wiring or components.
- This heat strip is designed for specific air handler models. Verify compatibility before installation.
- Wear appropriate personal protective equipment (PPE) during installation and service.

3. PRODUCT OVERVIEW

The HKR-10A WGO1002 is a 10KW electric heat strip designed for integration into various Goodman, Amana, and Janitrol HVAC systems. It provides supplemental heating when the primary heating source is insufficient or unavailable.

Key Features:

- **Element Protection:** Heating elements are protected by a metal wrapper for durability.
- **Point Suspension:** Features a point suspension element support system designed to eliminate hot spots and extend heater life.
- **Time Delay:** Includes a time delay between heating steps, which recycles on power interruption or brown-out conditions.
- **No Off Delay:** Designed without an off delay to enhance SEER rating and prevent heating overshoot.
- **Durable Contactors:** Equipped with chatter and rapid-cycle resistant contactors rated for 250,000 cycles.
- **Safe Handling:** Constructed with rounded metal corners for safer handling during installation.
- **Modular Control Plug:** Features a modular control plug for simplified installation.
- **Certifications:** ETL certified for safety and performance.

Compatible Air Handler Models:

This heat strip is compatible with the following Goodman/Janitrol and Amana air handler series:

- **Goodman/Janitrol Air Handlers:** AR-18-1 thru AR-61-1; AER-24 thru AER-61; ASPF 18 thru 60; AEPF/ADPF 18 thru 60; Variable & Multi Speed Blowers MBE/MBR 18,000 - 60,000 BTU's; AVPTC 1830, 3137, 4260; Packaged Air Conditioner GPH/C13 024-060.
- **Amana Air Handlers:** ARUF 018-061; ARPF 024-061; ARPT 024-060; AEPT 024-060; MBVC 1-1/2 to 5 Ton Modular Blowers.



Figure 1: The Goodman HKR-10A WGO1002 10KW Heat Strip. This image displays the heat strip unit, featuring multiple coiled heating elements mounted on a metal frame, connected to a control board with various terminals and components. The Goodman logo is visible in the upper left corner.

4. INSTALLATION

Installation of this heat strip requires specialized knowledge and tools. It must be performed by a qualified, licensed HVAC technician to ensure proper function, safety, and compliance with all applicable codes.

General Installation Steps (for qualified technicians):

1. **Verify Compatibility:** Before beginning, confirm that the HKR-10A WGO1002 heat strip is the correct replacement or accessory for your specific air handler model. Refer to the air handler's documentation or contact the manufacturer for verification.
2. **Disconnect Power:** Turn off all electrical power to the air handler unit at the main service panel. Verify

power is off using a voltage meter.

3. **Access Air Handler:** Open the air handler access panel to expose the area where the heat strip will be installed.
4. **Mount Heat Strip:** Securely mount the heat strip into the designated slot within the air handler, following the air handler manufacturer's instructions. Ensure proper alignment and secure fastening.
5. **Electrical Connections:** Connect the heat strip's wiring to the air handler's control board and power supply, adhering strictly to the wiring diagram provided with the air handler and the heat strip. Pay close attention to voltage requirements and proper grounding.
6. **Control Plug Connection:** Connect the modular control plug to the appropriate receptacle on the air handler's control board.
7. **Close and Secure:** Once all connections are made and verified, close and secure the air handler access panel.
8. **Restore Power and Test:** Restore power to the air handler unit. Perform functional tests to ensure the heat strip operates correctly and safely, checking for proper heating and control responses.

Note: The picture of the heat strip may vary slightly from the actual unit. Always refer to the specific model number for accurate identification.

5. OPERATION

Once properly installed and integrated into the HVAC system, the HKR-10A WGO1002 heat strip operates automatically in conjunction with the thermostat and air handler controls.

- When the thermostat calls for heat and the primary heating source (if applicable) cannot meet the demand, or if the system is configured for electric heat only, the heat strip will be activated.
- The heat strip features a time delay between steps, which helps manage power consumption and system stability. In the event of a power interruption or brown-out, this delay system will recycle.
- The design includes no off delay, which contributes to an increased SEER rating for the overall system and helps prevent heating overshoot, ensuring more precise temperature control.
- The system's contactors are designed to be chatter and rapid-cycle resistant, ensuring reliable operation over an extended period.

For specific operational settings and thermostat programming, refer to your air handler and thermostat instruction manuals.

6. MAINTENANCE

The HKR-10A WGO1002 heat strip is designed for reliable operation with minimal user maintenance. However, periodic inspection by a qualified HVAC technician is recommended to ensure optimal performance and safety.

Recommended Maintenance (by qualified technician):

- **Annual Inspection:** Have a licensed technician inspect the heat strip and its connections annually, typically as part of routine HVAC system maintenance.
- **Check Electrical Connections:** Ensure all wiring connections are tight and free from corrosion.
- **Inspect Heating Elements:** Visually inspect heating elements for any signs of damage, discoloration, or wear.

- **Clean Components:** Ensure the area around the heat strip is free from dust, debris, and obstructions that could impede airflow or cause overheating.
- **Verify Contactor Operation:** Check the contactors for proper engagement and disengagement.

Always disconnect power to the unit before any maintenance or inspection.

7. TROUBLESHOOTING

If you experience issues with your heat strip, it is crucial to contact a qualified HVAC technician for diagnosis and repair. Attempting to troubleshoot or repair electrical heating components without proper training can be dangerous.

Common Issues and Professional Actions:

- **No Heat:** A technician will check power supply, thermostat settings, control board signals, and the integrity of the heating elements and contactors.
- **Insufficient Heat:** This could indicate a partially failed element, incorrect wiring, or issues with the air handler's airflow. A technician will diagnose the specific cause.
- **Burning Smell:** Immediately turn off the HVAC system at the breaker. A burning smell can indicate overheating, dust accumulation on elements, or a failing component. Contact a technician immediately.
- **Frequent Tripping Breaker:** This suggests an electrical fault, short circuit, or overloaded circuit. A technician will identify and rectify the electrical issue.

Do not attempt to open the unit or perform electrical repairs yourself. Damage to yourself or the unit may occur if not handled by a professional.

8. SPECIFICATIONS

Specification	Detail
Model Number	HKR-10A / WGO1002
Heating Capacity	10 Kilowatts (KW)
Manufacturer	Warren
Compatibility	Goodman/Janitrol Air Handlers (AR, AER, ASPF, AEPF/ADPF, MBE/MBR, AVPTC, GPH/C13 series); Amana Air Handlers (ARUF, ARPF, ARPT, AEPT, MBVC series)
Features	Point Suspension elements, Time delay between steps, No off delay, Chatter/Rapid-cycle Resistant Contactors, Modular control plug
Certifications	ETL Certified

9. WARRANTY AND SUPPORT

Warranty Information:

This product comes with a **one-year warranty** from the date of purchase. This warranty covers defects in

materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

The warranty does not cover damage resulting from improper installation, misuse, neglect, unauthorized repairs, or acts of nature.

Customer Support:

For technical assistance, warranty claims, or to verify fitment for your specific air handler model, please contact the seller or manufacturer directly. When contacting support, please have your product model number (HKR-10A / WGO1002) and proof of purchase readily available.