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› ClimaTek Furnace Air Pressure Switch (York Part # 129694, 0.65" WC) Instruction Manual

ClimaTek 129694

ClimaTek Furnace Air Pressure Switch (York Part # 129694, 0.65" WC) Instruction Manual

Model: 129694

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your ClimaTek Furnace Air Pressure Switch, designed as a direct replacement for York Part # 129694 with a 0.65" WC (Water Column) rating. Please read these instructions thoroughly before proceeding with installation or service.

SAFETY INFORMATION

WARNING: Risk of Electric Shock and Injury.

- Always disconnect power to the furnace or HVAC system before installing, servicing, or removing the pressure switch. Failure to do so can result in severe personal injury or death.
- Installation and service should only be performed by a qualified HVAC technician.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not bypass or tamper with safety devices, including this pressure switch.
- Verify the pressure switch rating (0.65" WC) matches the specifications required by your furnace manufacturer.

PRODUCT OVERVIEW

The ClimaTek Furnace Air Pressure Switch is a critical safety component in your furnace, designed to monitor the differential air pressure across the inducer motor or heat exchanger. It ensures proper airflow and exhaust venting before allowing the burner to ignite. This model is a direct replacement for York Part # 129694.

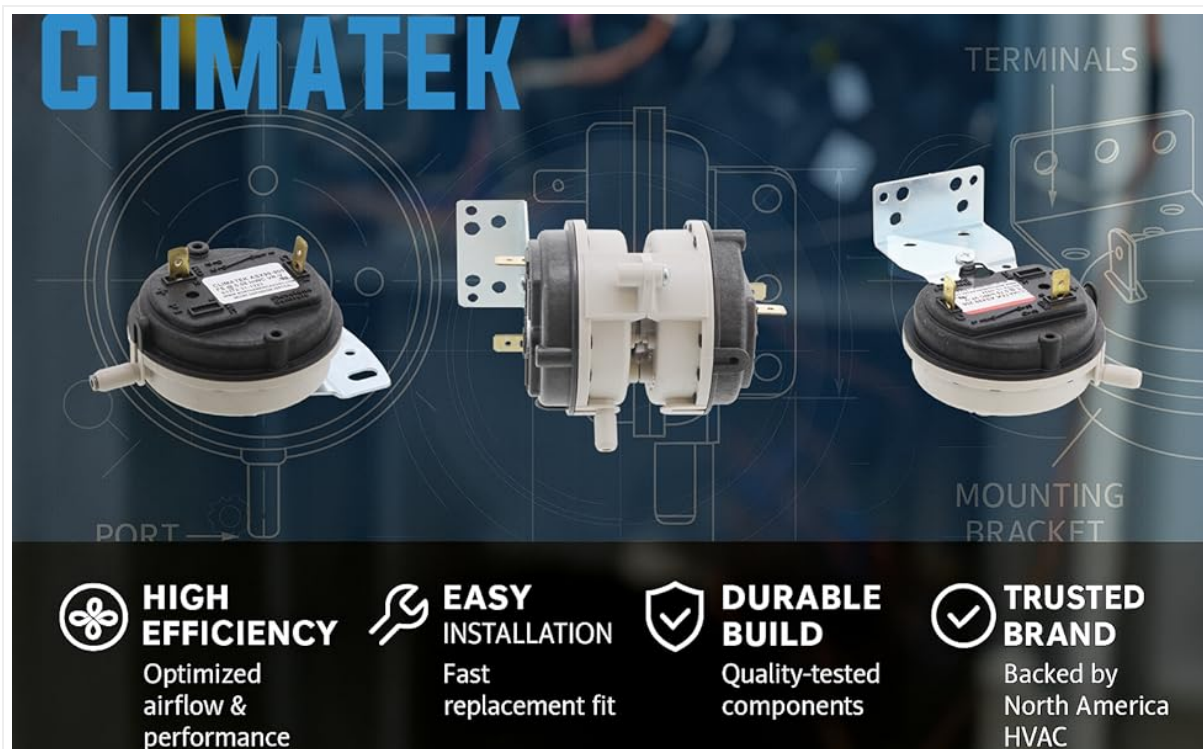


Image 1: Overview of the ClimaTek Furnace Air Pressure Switch. The image displays the pressure switch from various angles, highlighting its electrical terminals, the air pressure port, and the integrated mounting bracket for secure installation. This component is designed for high efficiency and durability, ensuring reliable performance in HVAC systems.

Key Components:

- **Pressure Port:** Connects to the furnace's inducer motor or heat exchanger via a silicone tube to sense air pressure.
- **Electrical Terminals:** Connects to the furnace control board to signal pressure status.
- **Mounting Bracket:** For secure attachment to the furnace chassis.

INSTALLATION INSTRUCTIONS

1. **Power Disconnection:** Turn off all electrical power to the furnace at the main service panel. Verify power is off using a multimeter.
2. **Locate Existing Switch:** Identify the existing pressure switch in your furnace. It is typically a small, round or square component with one or more rubber tubes connected to it and electrical wires.
3. **Disconnect Tubing and Wiring:** Carefully remove the silicone tubing from the pressure port(s) of the old switch. Note the orientation and connection points of the electrical wires before disconnecting them. Taking a photograph can be helpful.
4. **Remove Old Switch:** Unscrew or unclip the old pressure switch from its mounting bracket.
5. **Install New Switch:** Mount the new ClimaTek pressure switch in the same location and orientation as the old one, using the existing screws or clips. Ensure it is securely fastened.
6. **Connect Tubing and Wiring:** Reconnect the silicone tubing to the pressure port(s) of the new switch, ensuring a snug fit. Reconnect the electrical wires to the appropriate terminals. Refer to your furnace's wiring diagram if unsure.
7. **Verify Connections:** Double-check all connections for security and correctness.
8. **Restore Power:** Restore electrical power to the furnace.
9. **Test Operation:** Initiate a call for heat to test the furnace operation. Observe if the inducer motor starts, the pressure switch closes (signaled by a click), and the burner ignites.

Note: If the furnace fails to operate correctly after installation, immediately disconnect power and re-check all steps or consult a qualified technician.

OPERATION

The pressure switch operates automatically as part of the furnace's safety sequence. When the thermostat calls for heat, the inducer motor starts, creating a negative pressure (vacuum) or positive pressure, depending on the furnace design. This pressure change is sensed by the pressure switch through the connected tubing.

- If the correct pressure differential (0.65" WC for this model) is detected, the switch closes, signaling the control board that it is safe to proceed with ignition.
- If the correct pressure is not detected (e.g., due to a blocked vent, faulty inducer motor, or clogged condensate drain), the switch remains open, preventing the burner from igniting. This prevents dangerous conditions such as carbon monoxide buildup.

The pressure switch is not user-adjustable and should not be tampered with.

MAINTENANCE

The ClimaTek Furnace Air Pressure Switch itself requires no routine maintenance. However, it is important to ensure the components it monitors are functioning correctly to prevent premature failure or nuisance trips.

- **Tubing Inspection:** Periodically inspect the silicone tubing connected to the pressure switch for cracks, kinks, blockages, or loose connections. Replace if damaged.
- **Pressure Port Cleaning:** Ensure the pressure port on the furnace (where the tubing connects) is clear of debris or condensate.
- **Vent System Check:** Ensure the furnace's exhaust and intake vents are clear of obstructions (e.g., bird nests, snow, ice).
- **Condensate Drain:** For high-efficiency furnaces, ensure the condensate drain system is clear and not blocked, as blockages can affect pressure readings.

Annual professional HVAC system inspection is recommended to ensure all components, including the pressure switch, are operating safely and efficiently.

TROUBLESHOOTING

If your furnace is not operating and the pressure switch is suspected, consider the following common issues:

Symptom	Possible Cause	Solution
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Symptom	Possible Cause	Solution
Furnace inducer motor runs, but burner does not ignite.	Blocked vent or flue. Kinked or blocked pressure switch tubing. Faulty inducer motor. Clogged condensate drain (high-efficiency furnaces). Defective pressure switch.	Check and clear vents. Inspect and clear/replace tubing. Consult HVAC technician for inducer motor check. Clear condensate drain. Test pressure switch continuity with a multimeter (only by qualified personnel). Replace if faulty.
Furnace cycles on and off rapidly (short cycling).	Intermittent pressure issue. Loose electrical connections.	Check for minor obstructions in vents or tubing. Ensure all electrical connections to the switch are secure.

If troubleshooting steps do not resolve the issue, it is recommended to contact a qualified HVAC service technician for diagnosis and repair.

SPECIFICATIONS

Feature	Detail
Model Number	129694 (Replacement for York Part)
Pressure Rating	0.65" WC (Water Column)
Product Dimensions	3 x 3 x 3 inches
Item Weight	3.04 ounces
Manufacturer	Rplm for York (ClimaTek Brand)
Compatibility	Designed as a direct replacement for York Part # 129694

WARRANTY AND SUPPORT

This ClimaTek product is manufactured to high-quality standards. For specific warranty information, please refer to the packaging or contact your point of purchase. For technical support or further assistance, please contact ClimaTek customer service or a qualified HVAC professional.

For more information about ClimaTek products, visit the [ClimaTek Store on Amazon](#).