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ClimaTek K55HXAJF-4097

ClimaTek Upgraded 1/3 HP Furnace Blower Motor K55HXAJF-4097 User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the ClimaTek Upgraded 1/3 HP Furnace Blower Motor, model K55HXAJF-4097. This motor is designed as a direct replacement for specific US Motors models and is intended for use in furnace blower applications. Please read this manual thoroughly before proceeding with any installation or service.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock and Injury.

- Always disconnect power to the furnace or HVAC system at the main circuit breaker before attempting any installation, maintenance, or service.
- Installation and servicing should only be performed by qualified and experienced HVAC technicians. Improper installation can lead to electrical shock, fire, property damage, or personal injury.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Do not operate the motor if it is damaged or if any components are missing.
- This motor contains a thermal overload protector. If the motor shuts off unexpectedly, allow it to cool before attempting to restart. Investigate the cause of the overload.

3. PRODUCT OVERVIEW

The ClimaTek Upgraded 1/3 HP Furnace Blower Motor (K55HXAJF-4097) is a robust and reliable component designed to circulate air within your furnace system. It features a 1/3 horsepower rating, operates at 1075 RPM, and is compatible with 115 VAC, 60 Hz electrical systems. This motor is built with quality materials, including a copper winding, for durability and efficient performance.



Image 1: The ClimateTek 1/3 HP Furnace Blower Motor (K55HXAJF-4097). This image displays the motor's main body, shaft, mounting brackets, and the electrical wiring harness. A label on the motor casing provides key specifications such as horsepower, RPM, voltage, amperage, frequency, phase, frame size, and capacitor requirements. The label also includes safety warnings and a QR code for additional information. The motor is designed for furnace blower applications.

4. SETUP AND INSTALLATION

This motor is a replacement part and requires careful installation. It is strongly recommended that installation be performed by a certified HVAC professional.

4.1 Pre-Installation Checks

- Verify that the new motor's specifications (HP, RPM, Voltage, Amps, Capacitor) match the original motor and your furnace's requirements.
- Ensure the power supply to the furnace is completely disconnected.
- Gather necessary tools: screwdrivers, wrenches, wire strippers, electrical tape, multimeter, and safety gear.

4.2 Removal of Old Motor

1. Disconnect all electrical wiring from the old motor, noting the connections for proper reinstallation. Take

photos if necessary.

2. Remove the blower wheel from the old motor shaft. This may require a wheel puller.
3. Unmount the old motor from its housing or cradle.

4.3 Installation of New Motor

1. Mount the new ClimaTek motor into the furnace blower housing, ensuring it is securely fastened.
2. Carefully slide the blower wheel onto the new motor shaft. Ensure the wheel is properly aligned and secured with the set screw.
3. Connect the electrical wiring to the new motor according to the wiring diagram (often found on the motor label or furnace schematic). Pay close attention to the capacitor connections. The motor requires a 10 uF capacitor.
4. Double-check all connections for tightness and proper insulation.

4.4 Post-Installation Checks

- Ensure the blower wheel spins freely without obstruction.
- Restore power to the furnace and test the blower motor operation. Listen for unusual noises or vibrations.
- Monitor the motor's performance during its initial run cycle.

5. OPERATING INSTRUCTIONS

The ClimaTek furnace blower motor operates as an integral part of your furnace or HVAC system. Once properly installed, its operation is controlled by the furnace's thermostat and control board. The motor will engage to circulate heated or cooled air throughout your home based on the system's settings.

- **Automatic Operation:** The motor will start and stop automatically in response to heating or cooling demands from the thermostat.
- **Continuous Fan Operation:** If your thermostat has a "Fan ON" setting, the motor can be set to run continuously to improve air circulation, even when heating or cooling is not active.

No direct user interaction is required for the motor's operation beyond setting your thermostat.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your furnace blower motor. Always disconnect power before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the motor and blower assembly annually.
- **Cleaning:** Keep the motor and blower wheel free from dust and debris. Accumulated dirt can cause overheating and reduced efficiency. Use a soft brush or vacuum cleaner.
- **Lubrication:** This motor is typically designed with sealed bearings that do not require lubrication. Refer to the motor label or manufacturer's specifications to confirm if lubrication points exist. Do not lubricate if not specified.
- **Wiring Check:** Periodically inspect electrical connections for signs of wear, corrosion, or looseness.
- **Capacitor Check:** The motor requires a 10 uF capacitor. Capacitors can degrade over time. If the motor struggles to start or runs sluggishly, the capacitor may need to be tested and replaced by a professional.

7. TROUBLESHOOTING

If you experience issues with your furnace blower motor, consult this section. For complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start or hums but doesn't spin.	No power supply. Faulty capacitor. Motor seized or obstructed. Overload protector tripped.	Check circuit breaker and furnace power switch. Test and replace capacitor if faulty (professional recommended). Inspect blower wheel for obstructions; ensure shaft spins freely. Allow motor to cool; check for airflow restrictions.
Motor runs but airflow is weak.	Dirty air filter. Dirty blower wheel. Ductwork issues.	Replace or clean air filter. Clean blower wheel (professional recommended). Inspect ductwork for leaks or obstructions.
Unusual noises (squealing, grinding).	Worn bearings. Loose blower wheel. Debris in blower housing.	Motor replacement may be necessary. Tighten blower wheel set screw. Inspect and clean blower housing.
Motor overheats and shuts off.	Restricted airflow. Overloaded motor. Faulty motor windings.	Check air filter, coils, and ductwork for obstructions. Ensure blower wheel is clean and balanced. Motor replacement may be necessary.

8. SPECIFICATIONS

Feature	Detail
Model Number	K55HXAJF-4097 (ClimaTek MOT99 900)
Horsepower (HP)	1/3 HP (0.33 Horsepower)
RPM	1075 RPM (4-speed)
Voltage (VAC)	115 VAC
Amperage (AMPS)	4.8 AMPS
Frequency (Hz)	60 Hz
Phase (PH)	1 Phase
Frame Size	48Y Frame
Capacitor Requirement	10 uF Capacitor
Material	Copper (windings)
Product Dimensions	11 x 16 x 12 inches

Feature	Detail
Item Weight	11.56 Pounds (185 Ounces)
Manufacturer	ClimaTek

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact ClimaTek directly or the authorized seller from whom you purchased this product. You may also find additional resources and contact information on the manufacturer's website.

For more detailed product information, you can visit the product page:northamericahvac.com/MOT99900/