

ClimaTek K55HXARB-2533

ClimaTek K55HXARB-2533 Furnace Blower Motor User Manual

MODEL: K55HXARB-2533 / MOT99-911

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your ClimaTek K55HXARB-2533 Furnace Blower Motor. Please read this manual thoroughly before attempting any installation or service. Retain this document for future reference.

IMPORTANT SAFETY INFORMATION

Failure to follow these safety instructions could result in property damage, serious injury, or death. Installation and servicing should be performed by a qualified HVAC technician.

- **Electrical Hazard:** Always disconnect power to the furnace or air handler before installing, servicing, or removing the motor. Failure to do so can cause electrical shock.
- **Professional Installation:** This motor is an electrical component. Installation requires knowledge of electrical systems and HVAC equipment. If you are not qualified, seek professional assistance.
- **Proper Wiring:** Ensure all wiring connections are secure and comply with local electrical codes. Incorrect wiring can lead to motor failure or fire.
- **Thermal Protection:** This motor is equipped with automatic thermal overload protection. If the motor overheats, it will shut down automatically and restart once it cools. Investigate the cause of overheating if this occurs frequently.
- **Capacitor:** Ensure the correct capacitor (10.0 uF) is used with this motor. An incorrect capacitor can damage the motor.

PRODUCT OVERVIEW

The ClimaTek K55HXARB-2533 is an upgraded furnace blower motor designed for reliable performance in HVAC systems. It is a 1/2 HP, 1075 RPM, 115V motor, suitable as a replacement for various furnace applications.



Image: ClimaTek K55HXARB-2533 Furnace Blower Motor. The motor features a robust black casing, a central shaft, and a bundle of color-coded wires with connectors for electrical hookup. A label on the motor displays technical specifications and safety warnings.

TECHNICAL SPECIFICATIONS

Feature	Value
Model Number	K55HXARB-2533 (MOT99-911)
Horsepower (HP)	1/2 HP
Revolutions Per Minute (RPM)	1075 RPM (3 Speed)
Voltage (VAC)	115V
Amperage (AMPS)	6.5 Amps

Feature	Value
Frequency (Hz)	60 Hz
Phase (PH)	1 Phase
Frame	48Y Frame
Capacitor Requirement	10.0 uF
Thermal Protection	Automatically Protected
Product Dimensions	7 x 16 x 7 inches
Item Weight	14.81 Pounds (237 Ounces)
Manufacturer	ClimaTek

INSTALLATION

Installation of a furnace blower motor should only be performed by a qualified HVAC technician. Incorrect installation can lead to motor damage, system malfunction, or safety hazards.

- Disconnect Power:** Ensure all electrical power to the furnace or air handler is completely disconnected at the main breaker. Verify with a voltage tester.
- Access Blower Compartment:** Open the access panel to the blower compartment.
- Remove Old Motor:** Disconnect all wiring from the old motor, noting the connections for each wire (e.g., speed taps, common, capacitor). Remove mounting bolts or clamps securing the old motor. Carefully slide the old motor out.
- Install New Motor:** Slide the new ClimaTek K55HXARB-2533 motor into position. Secure it with the appropriate mounting hardware. Ensure the motor shaft is properly aligned with the blower wheel.
- Wiring:** Connect the new motor's wires according to the furnace manufacturer's wiring diagram and the notes taken during removal. Ensure the correct speed tap is connected for your application. Connect the 10.0 uF capacitor.
- Secure Connections:** Double-check all electrical connections for tightness and proper insulation.
- Close Compartment:** Replace the blower compartment access panel.
- Restore Power:** Restore electrical power to the furnace or air handler.
- Test Operation:** Test the furnace operation to ensure the new blower motor functions correctly and quietly.

OPERATION

Once properly installed, the ClimaTek K55HXARB-2533 blower motor operates automatically in conjunction with your furnace or air conditioning system. It is designed to move air through the ductwork, distributing heated or cooled air throughout your space.

- The motor will activate when the thermostat calls for heating or cooling.
- It will run at the speed determined by the wiring configuration (e.g., heating speed, cooling speed, continuous fan speed).
- The motor is designed for continuous duty within its specified operating parameters.

MAINTENANCE

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

- **Annual Inspection:** Have a qualified technician inspect the motor and blower assembly annually.
- **Clean Blower Wheel:** Ensure the blower wheel is clean and free of dust and debris, which can cause imbalance and strain on the motor.
- **Check Wiring:** Periodically inspect wiring connections for any signs of wear, corrosion, or looseness.
- **Motor Bearings:** This motor typically features sealed bearings that do not require lubrication. Do not attempt to oil sealed bearings.
- **Air Filter:** Ensure the furnace air filter is replaced regularly according to the manufacturer's recommendations. A dirty filter restricts airflow and can cause the motor to overwork.

TROUBLESHOOTING

Before attempting any troubleshooting, ensure power is disconnected. If you are unsure about any step, consult a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start	No power, faulty wiring, bad capacitor, motor overload.	Check circuit breaker. Verify wiring connections. Test or replace capacitor. Allow motor to cool if overloaded.
Motor runs but no airflow	Blower wheel loose on shaft, obstruction in ductwork.	Tighten set screw on blower wheel. Inspect ductwork for blockages.
Motor is noisy	Loose mounting, worn bearings, unbalanced blower wheel.	Check motor mounting. Inspect blower wheel for debris or damage. If bearings are worn, motor replacement may be necessary.
Motor overheats and shuts off	Restricted airflow (dirty filter/coil), motor overloaded, incorrect voltage.	Replace air filter. Clean evaporator coil. Verify correct voltage supply. Ensure blower wheel is clean.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your ClimaTek K55HXARB-2533 Furnace Blower Motor, please contact ClimaTek customer service. Keep your purchase receipt and model information readily available when contacting support.

You can visit the official ClimaTek store for more information:[ClimaTek Store on Amazon](#)

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

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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