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Emerson K55HXJKL-2918

Emerson K55HXJKL-2918 Condenser Fan Motor Instruction Manual

Model: K55HXJKL-2918

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Emerson K55HXJKL-2918 OEM Upgraded Condenser Fan Motor. Please read thoroughly before proceeding with any procedures to ensure safe and correct usage.



Image: Emerson K55HXJKL-2918 Condenser Fan Motor. This motor is designed for condenser fan applications in HVAC systems.

SAFETY INFORMATION

Adherence to safety precautions is crucial during installation and maintenance.

- Always disconnect power to the HVAC unit at the main breaker before attempting any installation, inspection, or servicing of the motor. Verify power is off with a voltage tester.
- Installation and electrical connections should be performed by a qualified and licensed HVAC technician or electrician.

- Ensure the motor is properly grounded according to local electrical codes and manufacturer specifications.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Refer to all applicable local and national electrical codes for proper installation procedures.

SETUP AND INSTALLATION

This section details the steps for installing the Emerson K55HXJKL-2918 condenser fan motor. Professional installation is recommended.

1. **Power Disconnection:** Before beginning, ensure the main power supply to the HVAC unit is completely disconnected. Use a voltage tester to confirm no power is present.
2. **Old Motor Removal:** Carefully remove the existing condenser fan motor. Note its mounting orientation, shaft position, and all wiring connections before disconnection. Take photographs if necessary for reference.
3. **Mounting:** Mount the new Emerson K55HXJKL-2918 motor securely in the condenser unit. Ensure the motor shaft is properly aligned with the fan blade and that the mounting bolts are tightened to prevent vibration.
4. **Wiring:** The motor features OEM wiring color codes and includes a wiring diagram for simplified connection. Refer to the specific diagram provided with your motor for precise connections.
 - *Typical 3-Wire Connection:* For common 3-wire setups, connect the yellow and purple wires together. Connect the brown wire to the 'Fan' terminal of the run capacitor. The remaining two wires are typically for line voltage (power supply).
 - *Rotation Direction:* After initial wiring, verify the fan rotation direction. The fan should spin counter-clockwise (CCW) when viewed from the top of the condenser unit. If the rotation is incorrect, switch the brown and purple wires (connect purple to the capacitor's 'Fan' terminal, and connect brown to yellow) to reverse the direction.
5. **Capacitor Check:** Ensure the run capacitor used is compatible with the motor's specifications. Many configurations require a 3MFD capacitor. Consult the motor's label or specifications for the correct capacitor rating.
6. **Final Checks:** Double-check all electrical connections for tightness, proper insulation, and correct routing. Ensure no wires are pinched or exposed. Confirm that the fan blade spins freely without obstruction.

OPERATING INSTRUCTIONS

Once the Emerson K55HXJKL-2918 motor is correctly installed and wired, it operates automatically as an integral part of your HVAC system.

1. **Power Restoration:** After completing all installation steps and safety checks, restore power to the HVAC unit at the main breaker.
2. **Initial Start-up:** Initiate a cooling cycle on your HVAC system. Observe the fan motor during its first operation cycle.
3. **Noise and Vibration:** The motor should run smoothly with minimal operational noise and vibration. Excessive noise or vibration may indicate an installation issue, an unbalanced fan blade, or a motor problem.
4. **Airflow:** Confirm that the fan is effectively moving air through the condenser coil, expelling heat from the system.

MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the lifespan of your Emerson K55HXJKL-2918 condenser fan motor.

- **Annual Inspection:** Annually inspect the motor for any visible signs of wear, corrosion, physical damage, or loose connections.
- **Cleaning:** Keep the motor housing, fan blades, and condenser coils free from dirt, dust, leaves, and other debris.

Accumulated debris can restrict airflow, reduce efficiency, and lead to motor overheating. Ensure power is disconnected before cleaning.

- **Lubrication:** This motor is typically designed with sealed bearings and does not require external lubrication. Refer to the motor's label or manufacturer's specifications for any specific lubrication requirements, if applicable.
- **Wiring Check:** Periodically check all electrical connections for tightness and integrity. Ensure insulation is intact and no wires are frayed or exposed.

TROUBLESHOOTING

This section provides solutions to common issues encountered with the Emerson K55HXJKL-2918 condenser fan motor. Always disconnect power before troubleshooting.

Problem	Possible Cause	Solution
Motor does not start or hums but does not spin	No power supply; faulty run capacitor; incorrect wiring; motor bearings seized or obstructed	Check power supply to the unit; test and replace the run capacitor if faulty; verify wiring connections against the diagram; inspect for obstructions around the fan blade or motor shaft.
Motor runs hot or cycles on/off frequently	Insufficient airflow due to dirty coils or obstructions; incorrect voltage supply; worn motor bearings; incorrect capacitor	Clean condenser coils and remove any obstructions; verify the voltage supply matches motor requirements; inspect motor for signs of bearing wear; ensure correct capacitor is installed.
Incorrect fan rotation direction	Wiring configured for the opposite rotation	Refer to the wiring diagram and adjust connections to achieve the correct counter-clockwise (CCW) rotation when viewed from the top (e.g., switch brown and purple wires).
Excessive noise or vibration during operation	Loose mounting bolts; unbalanced fan blade; worn motor bearings	Tighten all mounting bolts; inspect the fan blade for damage or imbalance and replace if necessary; if bearings are worn, motor replacement may be required.

SPECIFICATIONS

Technical specifications for the Emerson K55HXJKL-2918 Condenser Fan Motor.

- **Model Number:** K55HXJKL-2918 (Alternate: CECOMINOD072266)
- **Brand:** Emerson
- **Horsepower (HP):** 1/5 HP (0.2 HP)
- **Voltage:** 208-230 Volts
- **Speed:** 1075 RPM
- **Material:** Copper
- **Item Weight:** Approximately 10 Pounds (9.99 lbs)
- **Product Dimensions:** 6 x 6 x 6 inches
- **Manufacturer:** OEM Emerson

WARRANTY INFORMATION

This product is covered by the manufacturer's standard warranty. For specific warranty terms, duration, and claim

procedures, please refer to the documentation included with your purchase or contact Emerson customer support directly. It is essential to retain your proof of purchase for any warranty claims.

SUPPORT AND CONTACT INFORMATION

For technical assistance, replacement parts, or further inquiries regarding your Emerson K55HXJKL-2918 Condenser Fan Motor, please contact your authorized dealer or Emerson customer service.

Online Resources: Visit the official Emerson website for product information, FAQs, and support documentation.

Customer Service: Refer to your product packaging or the Emerson website for the most current contact details, including phone numbers and email addresses.