Emerson K55HXPSS-7300

Emerson K55HXPSS-7300 Condenser Fan Motor User Manual

Model: K55HXPSS-7300 | Brand: Emerson

1. Introduction

This manual provides essential instructions for the safe installation, operation, and maintenance of the Emerson K55HXPSS-7300 Condenser Fan Motor. Please read this manual thoroughly before attempting any procedures to ensure proper function and safety.

2. Safety Information

WARNING: Electrical shock hazard. Always disconnect power to the unit before installing, servicing, or cleaning the motor. Failure to do so can result in serious injury or death.

- Installation and servicing should only be performed by a qualified HVAC technician.
- Ensure all local and national electrical codes are followed.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Verify that the replacement motor specifications match the original motor requirements.

3. Product Overview and Specifications

The Emerson K55HXPSS-7300 is an OEM upgraded condenser fan motor designed for outdoor A/C units. It features a robust design for reliable performance.



Image 1: Emerson K55HXPSS-7300 Condenser Fan Motor. This image shows the cylindrical motor body, the shaft extending from one end, and the electrical wiring (red, black, white) emerging from the motor housing.

Technical Specifications:

- **Model:** K55HXPSS-7300
- **Brand:** Emerson
- **Horsepower (HP):** 1/5 HP (0.2 hp)
- **Voltage:** 208-230 Volts
- **Material:** Copper
- **Item Weight:** Approximately 9 pounds (144 ounces)
- **Product Dimensions:** Approximately 7 x 7 x 14 inches

4. Installation Instructions

Important: Installation should only be performed by a qualified HVAC professional. Incorrect installation can lead to equipment damage, electrical shock, or fire.

1. **Disconnect Power:** Locate the main power switch for the outdoor A/C unit and turn it OFF. Verify power is disconnected using a voltage tester.
2. **Access Motor:** Carefully remove the access panel or grille to expose the condenser fan motor. Note the position and orientation of the existing motor and fan blade.
3. **Disconnect Wiring:** Take a photograph or make a diagram of the existing wiring connections. Disconnect the electrical wires from the old motor and capacitor.
4. **Remove Old Motor:** Unbolt or unmount the old motor from its housing. Carefully remove the fan blade from the old motor shaft.
5. **Install Fan Blade:** Securely attach the fan blade to the shaft of the new Emerson K55HXPSS-7300 motor. Ensure the blade is properly balanced and tightened.
6. **Mount New Motor:** Mount the new motor into the condenser unit, ensuring it is securely fastened and correctly oriented.
7. **Connect Wiring:** Connect the new motor's wiring according to the OEM wiring color code and diagram provided with the motor or the original unit's specifications. Ensure all connections are tight and insulated. It is often

recommended to replace the capacitor when replacing the motor.

8. **Secure Panels:** Replace all access panels and grilles securely.
9. **Restore Power:** Turn the main power switch for the A/C unit back ON.
10. **Test Operation:** Initiate a cooling cycle and observe the fan motor's operation. Check for proper rotation, unusual noises, or vibrations.

5. Operation

The Emerson K55HXPSS-7300 condenser fan motor operates automatically as part of your HVAC system's cooling cycle. Once properly installed, it will engage and disengage as required to dissipate heat from the condenser coil.

- Ensure the outdoor unit is free from obstructions that could impede airflow.
- Listen for smooth operation without excessive noise or vibration.

6. Maintenance

Regular maintenance helps ensure the longevity and efficiency of your condenser fan motor. Always disconnect power before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the motor and fan blade annually, typically before the cooling season.
- **Clean Fan Blades:** Keep the fan blades free of dirt, debris, and obstructions. Accumulated grime can unbalance the blade and stress the motor.
- **Check Wiring:** Periodically inspect electrical connections for tightness and signs of wear or corrosion.
- **Lubrication:** This motor is typically sealed and does not require user lubrication. Refer to the specific motor label for lubrication requirements if any.

7. Troubleshooting

If you experience issues with your condenser fan 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. • Incorrect wiring.	• Check circuit breaker and power connections. • Test and replace capacitor if necessary (by a technician). • Inspect fan blade for obstructions; ensure shaft spins freely. • Verify wiring against diagram.
Motor runs but makes excessive noise or vibrates.	• Loose mounting bolts. • Unbalanced fan blade. • Worn bearings (internal motor issue). • Debris in fan housing.	• Tighten mounting bolts. • Clean fan blade; check for damage. • Motor replacement may be required. • Clear any debris.

Problem	Possible Cause	Solution
Motor overheats and shuts off.	• Insufficient airflow. • Overload (e.g., fan blade obstruction). • Incorrect voltage. • Internal motor fault.	• Ensure condenser coil and fan area are clean and clear. • Remove obstructions. • Verify power supply voltage. • Contact a technician for diagnosis.

8. Warranty and Support

For specific warranty information regarding your Emerson K55HXPSS-7300 Condenser Fan Motor, please refer to the documentation provided by your seller or contact Emerson directly. Warranty terms can vary based on the point of purchase and regional regulations.
For technical support or service, it is recommended to contact a certified HVAC professional.

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.

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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