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› ClimaTek Upgraded 1/5 HP Condenser Fan Motor Instruction Manual

ClimaTek ClimaTek for US Motors # K55HXPSS-7298

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Model: ClimaTek for US Motors # K55HXPSS-7298

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your ClimaTek Upgraded 1/5 HP Condenser Fan Motor. This motor is designed as a direct replacement for various Emerson and US Motors models, including K55HXHDD-8562, K55HXPSS-7298, and K55HXRKR-5599. It is suitable for use in a variety of A/C units from brands such as ICP, Heil, Tempstar, Comfortmaker, Kenmore, and Synder General.



Figure 1: ClimaTek 1/5 HP Condenser Fan Motor. This image displays the motor with its label clearly visible, showing specifications like HP, RPM, VAC, AMPS, and capacitor requirements. The motor has a central shaft, a black cylindrical body, and electrical wires extending from its side, terminating in a white connector.

2. SAFETY INFORMATION

WARNING: Always disconnect power before installing or servicing the motor. Failure to do so may result in serious injury or death. Installation should only be performed by a qualified technician.

- Ensure the power supply matches the motor's voltage requirements (208-230 VAC).
- Verify proper grounding to prevent electrical shock.
- Do not operate the motor if it is damaged or has exposed wiring.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- This motor is thermally protected. If it overheats, it will shut off automatically. Allow it to cool before attempting to restart.

3. SPECIFICATIONS

Attribute	Value
Horsepower (HP)	1/5 HP (0.2 hp)
RPM	1075 rpm
Voltage (VAC)	208-230 VAC
Amperage (AMPS)	1.3 AMPS
Frequency	60 Hz
Phase	1 PH
Frame	48Y Frame
Capacitor Requirement	3.0 uF (370 VAC)
Material	Copper
Product Dimensions	7 x 7 x 14 inches
Weight	8.4 Pounds

Note: Specifications are based on the motor's label and product details.

4. SETUP AND INSTALLATION

This motor is designed for direct replacement. Follow the manufacturer's instructions for your specific HVAC unit when replacing the condenser fan motor. The following are general guidelines:

- Power Disconnection:** Ensure all power to the HVAC unit is completely disconnected at the breaker. Verify with a voltage tester.
- Access:** Carefully remove the access panels and fan guard to expose the existing condenser fan motor.
- Wiring Disconnection:** Note the existing wiring configuration. Take photos if necessary. Disconnect the old motor's wiring from the capacitor and control board.
- Mounting Removal:** Unbolt or unmount the old motor from its bracket. Remove the fan blade from the old motor shaft.
- Fan Blade Transfer:** Securely attach the existing fan blade to the shaft of the new ClimaTek motor. Ensure the set screw is tightened properly.
- New Motor Mounting:** Mount the new ClimaTek motor into the existing bracket. Ensure it is securely fastened and aligned.
- Wiring Connection:** Connect the new motor's wires according to the diagram on the motor label and your HVAC unit's wiring schematic. The motor label indicates Black (BLK) and Red (RED) for Line, and Brown (BRN) for Capacitor. Ensure the correct capacitor (3.0 uF, 370 VAC) is used. The motor is designed for CW (Clockwise) lead end rotation.
- Reassembly:** Replace the fan guard and access panels.
- Power Restoration:** Restore power to the HVAC unit and test the motor's operation.

Consult a professional HVAC technician if you are unsure about any step of the installation process.

5. OPERATING INSTRUCTIONS

Once properly installed, the ClimaTek condenser fan motor operates automatically as part of your HVAC system. It is designed to run when the air conditioning compressor is active, facilitating heat exchange by moving air across the condenser coil.

- Ensure the fan blade spins freely without obstruction.
- Listen for unusual noises during operation, which may indicate an issue.
- Monitor for proper airflow from the top of the condenser unit.

6. MAINTENANCE

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

- **Annual Cleaning:** Annually, or more frequently in dusty environments, clean the exterior of the motor and fan blades to remove dirt, dust, and debris. Use a soft brush or cloth.
- **Coil Cleaning:** Ensure the condenser coils are clean, as dirty coils can increase the load on the motor.
- **Shaft Inspection:** Periodically check the motor shaft for any signs of wear or corrosion.
- **Wiring Inspection:** Inspect all electrical connections for tightness and signs of wear or damage.
- **Bearing Lubrication:** This motor is typically sealed and does not require lubrication. Refer to your HVAC unit's manual for specific lubrication requirements if applicable.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor does not start	No power; faulty capacitor; wiring error; seized bearings; thermal overload.	Check power supply and circuit breaker. Inspect capacitor for bulging or leaks and replace if necessary. Verify wiring connections. Check if shaft spins freely. Allow motor to cool if thermal overload tripped.
Motor hums but does not spin	Faulty capacitor; obstructed fan blade; seized bearings.	Replace capacitor. Clear any obstructions around the fan blade. Check if shaft spins freely.
Motor runs hot	Dirty coils; restricted airflow; incorrect voltage; worn bearings.	Clean condenser coils. Ensure no obstructions to airflow. Verify correct voltage supply. If bearings are worn, motor replacement may be necessary.
Excessive noise or vibration	Loose mounting; unbalanced fan blade; worn bearings.	Tighten mounting bolts. Inspect fan blade for damage or imbalance. If bearings are worn, motor replacement may be necessary.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician.

8. WARRANTY AND SUPPORT

This ClimaTek motor is a quality replacement part built to last. For specific warranty information, please refer to the terms provided at the time of purchase or contact your seller. For additional product information and support, you may visit the

manufacturer's related resources:

ClimaTek Store: [Visit the ClimaTek Store on Amazon](#)

Product Information: [North America HVAC Product Page](#)

For technical assistance or replacement parts, please contact your authorized ClimaTek dealer or the point of purchase.

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This manual is for informational purposes only. ClimaTek is not responsible for any damages or injuries resulting from improper installation or use of this product.

