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› ClimaTek OEM Upgraded Condenser Fan Motor User Manual

ClimaTek YSLB-130-8-B003(AL)-0001

ClimaTek OEM Upgraded Condenser Fan Motor

Model: YSLB-130-8-B003(AL)-0001

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your ClimaTek OEM Upgraded Condenser Fan Motor, Model YSLB-130-8-B003(AL)-0001. This motor is designed as a high-quality replacement for various condenser fan applications, including those originally using Interlink Model YSLB-130-8-B002.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock or Injury

- Always disconnect power to the unit before installing, servicing, or performing any maintenance on the motor.
- Installation and servicing should only be performed by qualified and experienced personnel.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Do not operate the motor if it is damaged or if any components are missing.

3. PRODUCT DESCRIPTION AND FEATURES

The ClimaTek OEM Upgraded Condenser Fan Motor is a robust and reliable component designed for optimal performance in HVAC systems. It is an upgraded replacement part, ensuring compatibility and improved durability.



Figure 1: ClimaTek OEM Upgraded Condenser Fan Motor. This image displays the black motor with a grey top and a central shaft. A white label on the side provides detailed specifications, including the model number YSLB-130-8-B002, 1/6 HP, 825 RPM, 208-230V, and a connection diagram. A bundle of purple, orange, and black wires extends from the motor, ready for connection.

Key Specifications:

- **Type:** OEM Upgraded Condenser Fan Motor
- **Horsepower (HP):** 1/6 HP
- **Revolutions Per Minute (RPM):** 825 RPM
- **Voltage:** 208-230 VAC
- **Phase (PH):** 1
- **Full Load Amps (FLA):** 1.0 A
- **Insulation Class:** B
- **Frame Size:** 48Y
- **Capacitor Requirement:** 5 MFD, 370 VAC (Note: Capacitor typically sold separately)
- **Thermal Protection:** Thermally Protected

- **Rotation:** CCWLE (Counter-Clockwise Lead End)
- **Frequency (Hz):** 60 Hz
- **Replaces Part #:** YSLB-130-8-B003(AL)-0001 (and compatible with Interlink YSLB-130-8-B002)

4. SETUP AND INSTALLATION

Proper installation is crucial for the motor's longevity and safe operation. Refer to the existing unit's wiring diagram and local electrical codes.

Installation Steps:

1. **Power Disconnection:** Ensure all power to the HVAC unit is completely disconnected at the circuit breaker or fuse box before beginning any work. Verify with a voltage tester.
2. **Access Motor:** Carefully remove the access panels or grilles to expose the existing condenser fan motor.
3. **Disconnect Old Motor:** Disconnect the wiring from the old motor, noting the connections (e.g., black to line, orange to line, purple to capacitor/common). Take photos if necessary for reference.
4. **Remove Old Motor:** Unbolt or unmount the old motor from its housing. Remove the fan blade from the old motor shaft.
5. **Install Fan Blade:** Securely attach the existing fan blade to the shaft of the new ClimaTek motor. Ensure it is balanced and tightened properly.
6. **Mount New Motor:** Mount the new motor into the condenser unit, ensuring it is securely fastened and aligned correctly.
7. **Wiring Connections:** Connect the new motor's wires according to the unit's wiring diagram and the motor's connection diagram (typically found on the motor label). For this motor, the common wiring scheme is:
 - **Black:** Line
 - **Orange:** Line
 - **Purple:** Capacitor (Common)

Ensure all connections are tight and insulated.

8. **Capacitor Connection:** If replacing the capacitor, ensure the new capacitor matches the motor's specifications (5 MFD, 370 VAC). Connect the purple wire to one terminal of the capacitor and the other capacitor terminal to the appropriate common or run terminal as per the unit's diagram.
9. **Secure Panels:** Replace all access panels and grilles.
10. **Restore Power:** Restore power to the unit and test for proper operation.

5. OPERATING INSTRUCTIONS

Once installed, the condenser fan motor operates automatically as part of the HVAC system's cooling cycle. When the thermostat calls for cooling, the compressor and condenser fan motor will activate to dissipate heat from the refrigerant.

- Ensure the fan blade spins freely and without obstruction.
- Listen for any unusual noises during operation, which may indicate an issue.
- Verify that air is being drawn through the condenser coil and expelled efficiently.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your condenser fan motor.

- **Annual Inspection:** At least once a year, typically before the cooling season, inspect the motor and fan blade.
- **Cleanliness:** Keep the area around the condenser unit and fan motor free of debris, leaves, dirt, and other obstructions that could impede airflow or damage the fan blade.
- **Check Connections:** Periodically check electrical connections for tightness and signs of corrosion.
- **Listen for Noise:** Pay attention to any new or unusual noises coming from the motor, such as grinding, squealing, or rattling.
- **Shaft Play:** If accessible and safe, gently check for excessive play in the motor shaft, which could indicate worn bearings.

Note: This motor is typically sealed and does not require lubrication.

7. TROUBLESHOOTING

If you experience issues with your condenser fan motor, consider the following common troubleshooting steps. Always disconnect power before inspecting the motor.

Problem	Possible Cause	Solution
Motor does not start or hums but doesn't spin.	<ul style="list-style-type: none">• Faulty capacitor• Wiring error• Overheating (thermal overload)• Seized bearings	<ul style="list-style-type: none">• Test and replace capacitor if faulty.• Verify all wiring connections.• Allow motor to cool; check for obstructions.• Replace motor if bearings are seized.
Motor runs but makes excessive noise.	<ul style="list-style-type: none">• Loose fan blade• Worn bearings• Debris in fan housing• Unbalanced fan blade	<ul style="list-style-type: none">• Tighten fan blade set screw.• Replace motor if bearings are worn.• Clear any debris.• Inspect and balance fan blade.
Motor overheats and shuts off.	<ul style="list-style-type: none">• Poor airflow (dirty coils, obstructions)• Incorrect voltage• Overload• Faulty thermal protector	<ul style="list-style-type: none">• Clean condenser coils; remove obstructions.• Verify correct voltage supply.• Ensure fan blade is correct size and pitch.• Replace motor if thermal protector is faulty.

If troubleshooting steps do not resolve the issue, it is recommended to contact a qualified HVAC technician.

8. SPECIFICATIONS

Attribute	Value
Model Number	YSLB-130-8-B003(AL)-0001
Horsepower (HP)	1/6 HP
RPM	825 RPM
Voltage	208-230 VAC
Phase	1 PH
Full Load Amps (FLA)	1.0 A
Insulation Class	B
Frame Size	48Y
Capacitor (Required)	5 MFD, 370 VAC
Thermal Protection	Thermally Protected
Rotation	CCWLE (Counter-Clockwise Lead End)
Frequency	60 Hz
Product Dimensions	10 x 13 x 11 inches
Product Weight	8.88 Pounds

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your ClimaTek OEM Upgraded Condenser Fan Motor, please refer to the documentation provided at the time of purchase or contact ClimaTek customer service directly. Ensure you have your product model number and purchase details available when contacting support.