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› Fasco UB579 Electric Motor Instruction Manual

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Model: UB579

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Fasco UB579 Electric Motor. This unit bearing motor is designed for various refrigeration and ventilation applications.

Intended Uses: Domestic refrigerator and freezer fans, commercial refrigeration equipment, room and hood ventilators, room heaters, evaporative coolers, humidifiers, dehumidifiers, and other equipment utilizing 6-inch to 10-inch fan blades. It is suitable for applications in grocery stores, restaurants, party stores, taverns, walk-in coolers, and food and beverage display cases.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power before servicing. Installation should be performed by a qualified technician in accordance with all local and national electrical codes.

- Always ensure the power supply matches the motor's voltage and frequency ratings (115 Volts, 60 Hz).
- Do not operate the motor if it is damaged or has exposed wiring.
- Ensure proper grounding to prevent electrical hazards.
- Keep hands and loose clothing away from moving parts during operation.
- This motor is designed for horizontal and shaft-up mounting only. Do not attempt other mounting orientations.

3. SETUP AND INSTALLATION

Careful installation is crucial for the motor's performance and longevity. Refer to the following steps:

1. **Unpacking:** Carefully remove the motor from its packaging. Inspect for any shipping damage.
2. **Mounting:** The Fasco UB579 motor features two mounting feet and rear mounting holes. Ensure the mounting surface is stable and capable of supporting the motor's weight (approximately 10 pounds). This motor is designed for **Horizontal & Shaft Up Mounting Only**. Do not install in any other orientation.
3. **Shaft Connection:** The motor has a 3/8" x 1-1/2" shaft. Connect the fan blade or other driven component securely to the shaft. Ensure the component is balanced to prevent vibration.
4. **Electrical Wiring:**

- Ensure the power supply is disconnected before wiring.
- Connect the motor to a 115 Volt, 60 Hz power supply.
- Follow all local and national electrical codes for wiring connections.
- Verify proper grounding.

5. **Rotation Check:** This motor has a Counter Clockwise Lead End (CCWLE) rotation. After initial power-up, briefly observe the shaft rotation to confirm it matches the application's requirement.



Image 1: Fasco UB579 Electric Motor. This image shows the main body of the motor, its shaft extending upwards, and the mounting feet at the base.

4. OPERATING INSTRUCTIONS

Once properly installed and wired, the Fasco UB579 motor operates continuously when power is supplied. It is a shaded pole motor designed for air-over applications, meaning it relies on airflow for cooling.

- Ensure adequate airflow around the motor during operation to prevent overheating.
- Monitor for unusual noises or vibrations, which may indicate an issue.
- The motor operates at 1500 RPM.

5. MAINTENANCE

The Fasco UB579 is a unit bearing motor, generally designed for minimal maintenance. However, periodic checks can extend its lifespan.

- **Cleaning:** Periodically clean dust and debris from the motor's exterior to ensure proper cooling. Disconnect power before cleaning.

- **Inspection:** Regularly inspect wiring for signs of wear or damage. Check mounting bolts for tightness.
- **Lubrication:** This motor typically features sealed bearings that do not require external lubrication. Do not attempt to lubricate unless specifically instructed by Fasco technical support.

6. TROUBLESHOOTING

If the motor is not functioning as expected, review the following common issues:

Problem	Possible Cause	Solution
Motor does not start	No power supply, incorrect wiring, seized shaft/bearings	Check power connection, verify wiring, inspect shaft for obstructions.
Motor runs hot	Insufficient airflow, excessive load, prolonged operation	Ensure clear airflow, reduce load if possible, allow for cooling periods.
Excessive noise or vibration	Unbalanced fan blade, loose mounting, worn bearings	Check fan blade balance, tighten mounting bolts, contact support if bearings are suspected.
Incorrect rotation	Wiring error or misapplication	Verify wiring against specifications. Note: This motor is CCWLE.

If troubleshooting steps do not resolve the issue, contact Fasco customer support or a qualified service technician.

7. SPECIFICATIONS

Specification	Detail
Model Number	UB579
Brand	Fasco
Power Output	50 Watts
Speed	1500 RPM
Amperage	1.7 Amps
Voltage	115 Volts
Frequency	60 Hz
Rotation	Counter Clockwise Lead End (CCWLE)
Shaft Dimensions	3/8" x 1-1/2"
Mounting	Two Mounting Feet, Rear Mounting Holes. Horizontal & Shaft Up Mounting Only.
Housing Material	Cast Iron
Motor Type	Shaded Pole Motor - Air Over
Item Weight	10 Pounds
UPC	786674071750

8. WARRANTY INFORMATION

This Fasco UB579 Electric Motor comes with a **1 Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use and service. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact Fasco customer support.

9. SUPPORT

For technical assistance, parts, or warranty inquiries, please contact Fasco customer support. You may also visit the official Fasco website for additional resources and contact information.

Please have your model number (UB579) and purchase date available when contacting support.

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