**Fasco 50752-D500**

# Fasco 50752-D500 Centrifugal Blower User Manual

Model: 50752-D500

## 1. Introduction

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Fasco 50752-D500 Centrifugal Blower. Please read this manual thoroughly before using the product and retain it for future reference.

The Fasco 50752-D500 is a single-speed, single-inlet centrifugal blower designed for various heating and ventilation applications, such as exhaust vent fans for furnaces. It features a sleeve bearing motor, operates on 115V, 60Hz, 1.1 amps, and is thermally protected against overheating. This blower is UL recognized and CSA certified.

## 2. Safety Information

**WARNING:** Disconnect power before servicing. Failure to do so may result in electric shock or serious injury.
**CAUTION:** Ensure proper grounding. All electrical connections must comply with local codes and ordinances.

- Read all instructions before installation and operation.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Do not operate the blower if it is damaged or malfunctioning.
- Keep hands and foreign objects away from the blower inlet and outlet during operation.
- Ensure adequate ventilation around the blower to prevent overheating.

## 3. Product Specifications

| Specification | Value |
|---|---|
| Model Number | 50752-D500 |
| Motor Type | 1-speed, Sleeve Bearing, Thermally Protected |
| Voltage | 115V |

| Specification | Value |
|---|---|
| Frequency | 60 Hz |
| Amperage | 1.1 amps |
| Blower Type | Centrifugal, Single Inlet, 4-hole mount |
| Free Air Output | 135 CFM at 3,100 RPM |
| CFM at Static Pressure | 108 CFM at 0.1" SP, 105 CFM at 0.2", 97 CFM at 0.3", 93 CFM at 0.4", 90 CFM at 0.5", 83 CFM at 0.6", 77 CFM at 0.7", 65 CFM at 0.8", 32 CFM at 0.9" |
| Certifications | UL recognized, CSA certified |
| Product Dimensions | 10 x 10 x 10 inches |
| Weight | 5.7 Pounds |

## 4. Setup and Installation

Before beginning installation, ensure the power supply is disconnected. This blower is designed for a 4-hole mount configuration.

### 4.1 Unpacking

- Carefully remove the blower from its packaging.
- Inspect the unit for any signs of shipping damage. Do not install if damaged.
- Verify all components are present.

### 4.2 Mounting

1. Identify the mounting location, ensuring it is stable and can support the blower's weight.
2. Align the blower's 4-hole mounting flange with the desired mounting surface.
3. Secure the blower using appropriate fasteners (not included) through the mounting holes. Ensure a tight and stable fit to prevent vibration.



Figure 1: Front-side view of the Fasco 50752-D500 Centrifugal Blower, showing the motor housing, impeller casing, and the rectangular air outlet with its 4-hole mounting flange.

## 4.3 Electrical Connection

**WARNING:** Electrical work should only be performed by qualified personnel. Ensure power is OFF before making any connections.

1. Connect the blower's electrical wires to a 115V, 60Hz, 1.1 amp power supply.

2. Ensure all connections are secure and insulated.
3. Properly ground the unit according to local electrical codes.
4. Verify that the power supply matches the blower's requirements to prevent damage.




Figure 2: Top-down view of the Fasco 50752-D500 Centrifugal Blower, highlighting the motor and the rectangular air outlet with its mounting holes.

## 5. Operation

Once installed and wired correctly, the Fasco 50752-D500 blower is ready for operation.

1. Ensure all safety precautions have been observed.
2. Restore power to the unit.
3. Activate the blower via its connected control system (e.g., furnace control board, external switch).
4. Monitor the blower for proper function, checking for unusual noises or vibrations.

The blower is designed for continuous operation within its specified parameters. Its thermal protection will automatically

shut down the motor if it overheats, restarting once it cools down.

## 6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your blower. Always disconnect power before performing any maintenance.

### 6.1 Cleaning

- Periodically inspect the blower inlet and impeller for dust, debris, or obstructions.
- Use a soft brush or vacuum cleaner to gently remove any accumulated dirt.
- Do not use liquids or abrasive cleaners on the motor or electrical components.

### 6.2 Bearing Lubrication

This blower features a sleeve bearing motor, which typically requires minimal maintenance. Consult the specific application's requirements for any recommended lubrication schedules. Generally, these bearings are pre-lubricated for life or designed for extended operation without additional lubrication.

### 6.3 Inspection

- Check for loose mounting hardware.
- Inspect electrical wiring for signs of wear, fraying, or damage.
- Listen for unusual noises during operation that might indicate a problem.

## 7. Troubleshooting

If you encounter issues with your Fasco 50752-D500 blower, refer to the following table for common problems and solutions. Always disconnect power before attempting any repairs.

| Problem | Possible Cause | Solution |
|---|---|---|
| Blower does not start | No power supply | Check power connections, circuit breaker, or fuse. |
| Blower does not start | Thermal overload activated | Allow motor to cool down. Check for obstructions or excessive load. |
| Blower does not start | Faulty wiring or switch | Inspect wiring and control switch. Repair or replace as needed. |
| Reduced airflow | Obstructed inlet or outlet | Clear any debris from the blower's inlet or outlet. |
| Reduced airflow | Damaged impeller | Inspect impeller for damage. Replace blower if impeller is damaged. |
| Excessive noise or vibration | Loose mounting | Tighten mounting bolts. |
| Excessive noise or vibration | Debris in impeller | Clean impeller and housing. |
| Excessive noise or vibration | Worn bearings | If bearings are worn, the blower may need replacement. |

## 8. Warranty and Support

For warranty information or technical support, please contact Fasco customer service or refer to the official Fasco website. Keep your purchase receipt as proof of purchase.

**Fasco Contact Information:**

- Website: www.regalrexnord.com/brands/fasco (Fasco is a brand of Regal Rexnord)
- Refer to product packaging or official website for specific contact numbers or email addresses.

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