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› [ClimaTek](#) /

› [ClimaTek Draft Inducer Blower Motor Replaces Dayton #s 2C610 4C442 1TDP5, Fasco 50752-D500 7021-3467, AO Smith 9492](#)

ClimaTek Draft Inducer Blower Motor (Replaces Dayton 2C610, Fasco 50752-D500, AO Smith 9492)

ClimaTek Draft Inducer Blower Motor User Manual

Model: Replacement for Dayton 2C610, Fasco 50752-D500, AO Smith 9492

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your ClimaTek Draft Inducer Blower Motor. This high-quality replacement part is designed to meet or exceed the specifications of original equipment, ensuring reliable performance for various heating applications.

The ClimaTek Draft Inducer Blower Motor is an upgraded 1/30 HP furnace blower motor, compatible with a range of systems including furnaces, wood stoves, and fireplaces. It operates at 115 Volts and is engineered for durability and long-lasting service.

SAFETY INFORMATION

WARNING: Always disconnect power to the appliance before installing, servicing, or performing maintenance on the draft inducer blower motor. Failure to do so can result in serious injury or death from electrical shock.

- Installation should only be performed by a qualified technician.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the motor if it is damaged or if any components are missing.
- Keep hands and loose clothing away from moving parts.

PRODUCT OVERVIEW



Figure 1: ClimaTek Draft Inducer Blower Motor. This image shows the compact design of the motor with its integrated fan housing and electrical connections. The mounting plate is visible on the front.

The ClimaTek Draft Inducer Blower Motor is a critical component in many heating systems, responsible for drawing combustion gases out of the heat exchanger and venting them safely. Its robust construction ensures reliable operation in demanding environments.

SETUP AND INSTALLATION

Before beginning installation, ensure you have the correct replacement part and all necessary tools. Refer to your appliance's specific service manual for detailed removal and installation procedures.

1. **Power Disconnection:** Locate the main power switch for the furnace or appliance and turn it OFF. Verify power is off using a voltage tester.
2. **Access:** Open the access panel to the draft inducer motor. This may require removing screws or latches.
3. **Disconnect Wiring:** Carefully label and disconnect all electrical wires connected to the old motor. Take a photo if necessary for reference.
4. **Remove Old Motor:** Unbolt or unmount the old draft inducer motor from its housing or mounting bracket. Note

its orientation.

5. **Install New Motor:** Position the new ClimaTek motor in the same orientation as the old one. Secure it with the appropriate bolts or fasteners.
6. **Reconnect Wiring:** Reconnect the electrical wires to the new motor, ensuring each connection is secure and matches the original configuration.
7. **Close Access:** Replace any access panels or covers removed during the process.
8. **Restore Power:** Turn the main power switch back ON.

After installation, perform a functional test to ensure the motor operates correctly and the appliance functions as expected.

OPERATING INSTRUCTIONS

The ClimaTek Draft Inducer Blower Motor operates automatically as part of your heating system's sequence of operation. It is designed to run when a call for heat is initiated and to shut off once the heating cycle is complete.

- Ensure the appliance's thermostat is set to a temperature that calls for heat.
- The draft inducer motor should start before the main burner ignites, creating a negative pressure to safely vent combustion gases.
- Listen for smooth operation. Unusual noises may indicate an issue.

No user intervention is typically required for the operation of the draft inducer motor itself once properly installed.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your draft inducer blower motor. Always disconnect power before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the motor annually as part of your heating system's preventative maintenance.
- **Cleanliness:** Ensure the area around the motor and its fan blades is free from dust, debris, and obstructions. Accumulated dirt can reduce efficiency and cause premature wear.
- **Vibration Check:** Periodically check for excessive vibration during operation, which could indicate a loose mounting or an imbalance.
- **Wiring Integrity:** Inspect electrical connections for signs of wear, corrosion, or looseness.

Do not attempt to lubricate sealed bearings, as this motor is designed to be maintenance-free in that regard.

TROUBLESHOOTING

If your heating system is not functioning correctly, the draft inducer motor may be a contributing factor. Consult a qualified technician for diagnosis and repair.

Problem	Possible Cause	Solution
Motor does not start.	No power, faulty wiring, failed motor, clogged pressure switch hose.	Check power supply. Verify wiring connections. Inspect pressure switch hose for blockages. Test motor for continuity. Replace motor if failed.

Problem	Possible Cause	Solution
Motor runs but no ignition.	Pressure switch not closing, blocked flue, faulty igniter.	Check pressure switch operation. Inspect flue for obstructions. Consult technician for igniter issues.
Unusual noises (grinding, squealing).	Worn bearings, debris in blower wheel, loose mounting.	Disconnect power and inspect blower wheel for debris. Check mounting bolts. If bearings are worn, motor replacement is likely needed.

For complex issues or if you are unsure, always contact a certified HVAC technician.

SPECIFICATIONS

Product Type: Draft Inducer Blower Motor

Brand: ClimaTek

Horsepower: 0.1 HP (1/30 HP)

Voltage: 115 Volts

Applications: Furnaces, Wood Stoves, Fireplaces

Dimensions: Approximately 10 x 9 x 10 inches

Weight: Approximately 5.25 Pounds

Replaces Part Numbers: Dayton 2C610, 4C442, 1TDP5; Fasco 50752-D500, 7021-3467; AO Smith 9492

WARRANTY AND SUPPORT

ClimaTek products are manufactured to high standards and are designed for durability. For specific warranty information regarding your ClimaTek Draft Inducer Blower Motor, please refer to the warranty documentation included with your purchase or contact ClimaTek customer support.

For technical support, installation assistance, or to inquire about replacement parts, please visit the official ClimaTek website or contact their customer service department. Always provide your product model information when seeking support.

Note: Unauthorized repairs or modifications may void the product warranty.