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Fasco D9868614

User Manual: Goodman Replacement Furnace Exhaust Draft Inducer Motor

Model: D9868614

Brand: Fasco

Introduction

This manual provides essential information for the safe and effective use of the Fasco D9868614 Replacement Furnace Exhaust Draft Inducer Motor. This component is designed to replace existing draft inducer motors in compatible Goodman furnace systems, ensuring proper exhaust ventilation and efficient operation. Please read this manual thoroughly before installation or maintenance.

Safety Information

WARNING: Risk of Electric Shock, Fire, or Explosion.

- Always disconnect power to the furnace before installing, servicing, or cleaning this component.
- Installation and servicing must be performed by a qualified HVAC technician. Improper installation can lead to serious injury or property damage.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the furnace if the draft inducer motor is damaged or not functioning correctly.
- Keep children and pets away from the furnace area during installation and operation.

Product Overview

The Fasco D9868614 is a critical component in a furnace's exhaust system. It is responsible for drawing combustion gases out of the heat exchanger and expelling them safely through the flue vent. Its robust design ensures reliable performance.



Figure 1: Fasco D9868614 Replacement Furnace Exhaust Draft Inducer Motor. This image shows the black, compact unit with its various ports and mounting points, designed for efficient exhaust ventilation in furnace systems.

Specifications

Attribute	Detail
Brand	Fasco
Model Number	D9868614
Product Dimensions	6 x 6 x 6 inches
Item Weight	10 Pounds (160 Ounces)
Manufacturer	FASCO
Date First Available	October 9, 2013

Installation (Setup)

IMPORTANT: Installation should only be performed by a certified HVAC professional.

1. **Power Disconnection:** Turn off all electrical power to the furnace at the main breaker or fuse box. Verify power is off using a voltage tester.
2. **Access:** Locate and access the existing draft inducer motor within the furnace unit.
3. **Disconnection:** Disconnect all electrical wiring from the old motor. Carefully note or photograph the wiring configuration for correct re-connection.
4. **Removal:** Unbolt or unmount the old draft inducer motor from its housing or mounting bracket.
5. **Inspection:** Inspect the mounting area and surrounding components for any damage or debris. Clean as necessary.

6. **New Motor Installation:** Mount the new Fasco D9868614 motor securely in place, ensuring all mounting points align.
7. **Wiring:** Reconnect the electrical wiring to the new motor, ensuring connections are tight and correct according to the furnace's wiring diagram and your previous notes.
8. **Testing:** Restore power to the furnace. Initiate a call for heat to test the operation of the new draft inducer motor. Verify proper exhaust ventilation and listen for unusual noises.
9. **Final Checks:** Ensure all panels are securely re-installed and no tools or debris are left inside the furnace.

Operation

The draft inducer motor operates automatically as part of the furnace's combustion cycle. When the thermostat calls for heat, the furnace control board activates the draft inducer motor first. This motor creates a negative pressure (draft) in the combustion chamber, pulling in fresh air for combustion and expelling exhaust gases. Once sufficient draft is established, a pressure switch signals the control board to allow the igniter and gas valve to activate, initiating the heating process. The motor continues to run throughout the heating cycle and for a short period after the gas valve closes to purge remaining combustion gases.

Maintenance

Regular maintenance of your furnace, including the draft inducer motor, is crucial for longevity and efficiency. It is recommended that a qualified HVAC technician perform annual furnace inspections and maintenance.

- **Annual Inspection:** Have a professional inspect the draft inducer motor for signs of wear, corrosion, or unusual noise during your annual furnace tune-up.
- **Cleaning:** The inducer motor housing and impeller can accumulate dust and debris over time. A technician can safely clean these components to ensure unrestricted airflow.
- **Vibration Check:** Ensure the motor is securely mounted and not vibrating excessively, which could indicate worn bearings or imbalance.
- **Electrical Connections:** Verify that all electrical connections to the motor are clean and secure.

Troubleshooting

If your furnace is not operating correctly, the draft inducer motor may be a contributing factor. Always consult a qualified HVAC technician for diagnosis and repair.

Symptom	Possible Cause	Action (Professional Recommended)
Furnace not starting, inducer motor hums but doesn't spin.	Seized bearings, obstructed impeller.	Inspect impeller for obstructions. Motor replacement may be necessary.
Inducer motor runs, but furnace doesn't ignite.	Faulty pressure switch, blocked flue, or other furnace issues.	Check pressure switch operation, inspect flue for blockages.
Loud or unusual noises from inducer motor.	Worn bearings, loose mounting, debris in impeller.	Inspect for debris, check mounting. Motor replacement may be required.
Motor runs continuously.	Faulty control board or pressure switch.	Diagnose control board or pressure switch.

Note: Always disconnect power before attempting any inspection or repair. If you are not a qualified technician, do not attempt repairs yourself. Contact a professional.

Warranty and Support

For specific warranty information regarding the Fasco D9868614 Replacement Furnace Exhaust Draft Inducer Motor, please refer to the documentation provided with your purchase or contact Fasco directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support, installation assistance, or professional servicing, it is highly recommended to contact a qualified and certified HVAC technician. They have the expertise and tools to safely and correctly install, diagnose, and repair furnace components.

You can often find contact information for Fasco or authorized service providers on their official website or through your original point of purchase.

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