

1000814

# Generic 1000814 Furnace Inducer Motor Instruction Manual

Model: 1000814

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Generic 1000814 Furnace Inducer Motor. Please read these instructions thoroughly before attempting any installation or service. Proper understanding and adherence to these guidelines will ensure optimal performance and longevity of the unit.

The inducer motor is a critical component in modern high-efficiency furnaces. Its primary function is to draw combustion gases from the furnace's heat exchanger and expel them safely through the exhaust vent. This process ensures efficient combustion and prevents hazardous flue gases from entering your living space.



Figure 1: Generic 1000814 Furnace Inducer Motor. This image shows the complete inducer motor assembly, including the motor housing, fan, and mounting plate.

## 2. SAFETY INFORMATION

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### **WARNING: Risk of Electric Shock, Fire, or Injury.**

- Always disconnect power to the furnace at the main service panel before installing, servicing, or removing the inducer motor. Failure to do so can result in severe electrical shock or death.
- Installation and service should only be performed by a qualified HVAC technician. Improper installation can lead to property damage, personal injury, or death.
- 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 furnace if the inducer motor is damaged or not functioning correctly.
- Keep children and pets away from the furnace area during installation and operation.

## 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged before proceeding with installation:

- 1 x 1000814 Furnace Inducer Motor

If any parts are missing or damaged, do not proceed with installation. Contact your supplier for assistance.

## 4. SPECIFICATIONS

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<b>Model Name</b>	1000814 Furnace Inducer Motor
<b>Part Number</b>	1000814
<b>Brand</b>	Generic
<b>Voltage</b>	115 Volts (as per product title)
<b>Compatibility</b>	Replaces HQ1000814FA, 44313-1, 44340-1, K37MYNW344, K37MYJD250, K37MYCM137, K37MYJD-250. Fits various Heil Tempstar furnace models.

## 5. SETUP AND INSTALLATION

**Important:** Installation should only be performed by a certified HVAC professional. Incorrect installation can lead to serious hazards and void any warranties.

- 1. Power Disconnection:** Turn off all electrical power to the furnace at the main circuit breaker or fuse box. Verify power is off using a voltage tester.
- 2. Access the Inducer Motor:** Locate the existing inducer motor on your furnace. This typically involves removing an access panel.
- 3. Disconnect Wiring:** Carefully disconnect the electrical wiring from the old inducer motor. Note the position of each wire for correct re-connection. Take photos if necessary.
- 4. Remove Old Motor:** Unbolt and remove the old inducer motor assembly from the furnace. Be mindful of any gaskets or seals.
- 5. Install New Motor:** Mount the new 1000814 Inducer Motor in the same position as the old one. Ensure it is securely bolted and any new gaskets or seals are properly seated to prevent leaks.
- 6. Connect Wiring:** Reconnect the electrical wiring to the new motor, ensuring all connections are tight and match the original configuration.
- 7. Verify Installation:** Double-check all connections, mounting, and ensure no tools or debris are left inside the furnace.
- 8. Restore Power:** Replace any access panels. Restore electrical power to the furnace.
- 9. Test Operation:** Initiate a call for heat to test the furnace operation. Observe the inducer motor for proper startup and exhaust gas expulsion. Check for any unusual noises or vibrations.

## 6. OPERATING INSTRUCTIONS

The 1000814 Furnace Inducer Motor operates automatically as part of your furnace's heating cycle. It does not require manual intervention during normal operation.

- When the thermostat calls for heat, the inducer motor is typically the first component to activate.
- It creates a negative pressure within the combustion chamber, drawing in fresh air for combustion and expelling flue gases.
- Once sufficient airflow is established and verified by pressure switches, the igniter and gas valve will activate to begin the heating process.
- The inducer motor continues to run throughout the heating cycle and for a short period after the main burner shuts off to clear residual gases.

If the inducer motor fails to start or operate correctly, the furnace's safety controls will prevent the main burner from igniting, indicating a potential issue.

## 7. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your furnace and its components, including the inducer motor. It is recommended to have your furnace inspected annually by a qualified HVAC technician.

- **Annual Inspection:** Have a qualified technician inspect the inducer motor for signs of wear, corrosion, or damage.
- **Cleanliness:** Ensure the area around the inducer motor and exhaust vent is free from obstructions, dust, and debris. Blockages can impede airflow and strain the motor.
- **Vibration and Noise:** Pay attention to any unusual vibrations or noises coming from the inducer motor. These could indicate worn bearings or an unbalanced fan, requiring professional attention.
- **Electrical Connections:** During professional servicing, ensure all electrical connections to the motor are secure and free from corrosion.

*Do not attempt to lubricate sealed bearings or disassemble the motor unless you are a qualified technician.*

## 8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution (Professional Assistance Recommended)
Inducer motor does not start	No power, faulty motor, clogged pressure switch hose, faulty pressure switch, control board issue.	Check circuit breaker. Verify wiring. Inspect pressure switch and hoses for blockages. Test motor for continuity. Replace faulty components.
Motor runs but furnace does not ignite	Pressure switch not closing, blocked exhaust vent, faulty igniter, gas valve issue.	Inspect exhaust vent for obstructions. Check pressure switch operation. Test igniter and gas valve.
Unusual noises (grinding, squealing)	Worn bearings, debris in fan, unbalanced fan.	Inspect fan for debris. Replace motor if bearings are worn.
Motor runs continuously	Faulty pressure switch, control board issue, thermostat wiring problem.	Diagnose and replace faulty pressure switch or control board. Check thermostat wiring.

*Always disconnect power before attempting any inspection or repair. If you are unsure, contact a professional.*

## 9. WARRANTY AND SUPPORT

This product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for warranty

claims.

For technical support, warranty inquiries, or to purchase replacement parts, please contact the seller or manufacturer directly. Refer to your purchase documentation for contact information.

*Note: Improper installation, unauthorized modifications, or misuse of the product may void the warranty.*