

ClimaTek IND99 504

ClimaTek Furnace Exhaust Inducer Motor IND99 504 Installation and Operation Manual

Model: IND99 504

INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your ClimaTek Upgraded Furnace Exhaust Inducer Motor, model IND99 504. This motor is designed as a direct replacement for various furnace models, including those requiring part numbers 66338, 1013188, 1014338, 1172823, 330701-701, 333710-751, A067, and FB-RFB330. It is compatible with furnaces from brands such as ICP, Heil, Tempstar, Carrier, Bryant, Payne, Comfortmaker, and Kenmore Arocaire.

SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read these instructions thoroughly before installing or servicing this equipment.

- Always disconnect electrical power to the furnace before attempting any installation, maintenance, or service.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- Ensure all wiring connections are secure and comply with local electrical codes.
- If you are not comfortable performing this installation, consult a qualified HVAC technician.
- This motor operates at high RPM; keep hands and loose clothing clear of moving parts.

PRODUCT OVERVIEW

The ClimaTek IND99 504 is an exhaust inducer motor designed to draw combustion gases from the furnace heat exchanger and vent them safely outside. This ensures proper airflow for combustion and prevents the buildup of hazardous gases within your home. The unit features an OEM-style design for direct replacement without requiring adapters or electrical modifications.



This image displays the complete ClimaTek furnace exhaust inducer motor, including the motor housing, fan assembly, mounting screws, and a gasket for installation.

INSTALLATION INSTRUCTIONS

Tools Required:

- Screwdriver (Phillips and/or Flathead)
- Wrench or Nut Driver (for mounting bolts)
- Wire Strippers/Crimpers (if wiring connections need modification)
- Multimeter (for electrical testing)

Preparation:

1. **Disconnect Power:** Turn off the electrical power to the furnace at the main breaker or fuse box. Verify power is off using a multimeter.
2. **Access Furnace:** Open the furnace access panels to locate the existing exhaust inducer motor.
3. **Document Connections:** Take photos or make notes of the existing wiring connections and the orientation of the motor before removal.

Removal of Old Motor:

1. **Disconnect Wiring:** Carefully disconnect the electrical wires from the old motor. Note their positions.
2. **Remove Mounting Hardware:** Loosen and remove the bolts or screws securing the old inducer motor to the furnace housing.
3. **Detach Motor:** Carefully remove the old motor assembly from the furnace. Be aware of any gaskets or seals that may be present.

Installation of New Motor:

1. **Inspect New Motor:** Before installation, visually inspect the new ClimaTek motor for any shipping damage.
2. **Position Gasket:** Place the new gasket (if supplied) onto the mounting surface of the furnace or the new

motor.

3. **Mount Motor:** Carefully align the new ClimaTek inducer motor with the mounting holes on the furnace housing. Secure it with the provided or existing mounting hardware. Ensure a snug fit to prevent air leaks.



This image provides a view of the motor's underside, revealing the fan impeller and the designated mounting points for secure attachment within the furnace.

6. **Connect Wiring:** Reconnect the electrical wires to the new motor, matching the connections documented during removal. The ClimaTek motor is designed for direct replacement, requiring no adapters or electrical modifications in most cases.



A detailed view of the motor's identification label, indicating the model number IND99 504, voltage (115V), RPM (3000), and other electrical specifications. The wiring connections are also visible.

7. **Secure Panels:** Close and secure all furnace access panels.
8. **Restore Power:** Restore electrical power to the furnace.
9. **Test Operation:** Initiate a heating cycle to ensure the new inducer motor operates correctly and the furnace functions as expected. Listen for any unusual noises.

OPERATION

The exhaust inducer motor is a critical component of your furnace's safety and efficiency system. When the thermostat calls for heat, the inducer motor starts first, creating a negative pressure within the heat exchanger. This draws in fresh air for combustion and expels combustion byproducts through the exhaust vent. Once sufficient airflow is established and verified by pressure switches, the igniter activates, followed by the main burners. The inducer motor continues to operate throughout the heating cycle to ensure proper venting.

MAINTENANCE

Regular maintenance of your furnace, including the inducer motor, can extend its lifespan and ensure safe operation. It is recommended to have your furnace inspected annually by a qualified HVAC technician.

- **Visual Inspection:** Periodically inspect the motor for any signs of wear, corrosion, or damage. Check for loose wiring connections.
- **Cleanliness:** Ensure the area around the inducer motor and its fan impeller is free from dust, debris, or obstructions that could impede airflow or cause imbalance.
- **Noise Check:** Listen for any unusual noises during operation, such as grinding, squealing, or excessive vibration, which could indicate a bearing issue.

TROUBLESHOOTING

If your furnace is not operating correctly, the inducer motor may be a factor. Always disconnect power before troubleshooting.

- **Motor Not Starting:**
 - Check if the furnace has power.
 - Verify all wiring connections to the motor are secure.
 - Inspect the pressure switch tubing for blockages or cracks.
- **Unusual Noises (Whining, Grinding):**
 - This often indicates worn bearings. The motor may need replacement if noises persist.
 - Check for any foreign objects that may have entered the fan housing.
- **Motor Overheating:**
 - Ensure proper ventilation around the motor.
 - Verify the motor is not struggling against an obstruction or excessive back pressure in the exhaust system.
- **Motor Runs but Furnace Does Not Ignite:**
 - The pressure switch may not be closing, indicating insufficient airflow or a faulty switch.
 - Check for blockages in the exhaust vent or condensate drain.
- **Incorrect Fit During Installation:**
 - Before purchasing, it is crucial to verify the dimensions of your existing motor, especially the inlet and outlet, against the specifications of the replacement part. Measure twice to avoid compatibility issues.

SPECIFICATIONS

Feature	Specification
Brand	ClimaTek
Model Number	IND99 504
Product Dimensions	11 x 11 x 8 inches
Item Weight	6.14 pounds
Speed	3000 RPM
Voltage	115 Volts

WARRANTY AND SUPPORT

For warranty information or technical support regarding your ClimaTek Furnace Exhaust Inducer Motor, please contact the retailer from whom you purchased the product or visit the official ClimaTek website. Keep your purchase receipt as proof of purchase for any warranty claims.