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Fasco FB-RFB52

FASCO FB-RFB52 High Efficiency Draft Inducer

Model: FB-RFB52

Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your FASCO FB-RFB52 High Efficiency Draft Inducer. This unit is designed for universal fit as a replacement for V52 M053, HEG & HEHB 80A Series, and Megasaver models, including K33HXCF-964, 2862-511-004, and 2862511004.
Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.

Safety Information

WARNING: Risk of electric shock. Disconnect power before servicing.
WARNING: Risk of injury. Moving parts. Keep hands clear.

- Always ensure the power supply to the furnace or appliance is disconnected before installing, servicing, or cleaning the draft inducer.
- Installation and servicing should only be performed by a qualified technician.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, during installation and maintenance.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the unit if any parts are damaged or missing.

Product Overview

The FASCO FB-RFB52 is a high-efficiency draft inducer motor designed to facilitate the proper exhaust of combustion gases in heating systems. It features a robust design for reliable performance.



Image: The FASCO FB-RFB52 High Efficiency Draft Inducer, showing its black housing, motor, and inlet/outlet ports. The motor is attached to the side of the fan housing, with wiring connections visible.

Key Features:

- **Motor Specifications:** 1/20 hp; .85 amp, 120V; 3450 RPM; 1-Speed.
- **Rotation:** Counter-Clockwise (CCW) rotation.
- **Bearings:** Equipped with durable ball bearings for extended life.
- **Capacitor:** Capacitor included for optimal motor performance.
- **Dimensions:** Inlet = 3 3/8" OD; Outlet = 3 7/17" ID (oval).

Specifications

Attribute	Value
Brand	Fasco
Model	FB-RFB52
Horsepower (HP)	1/20 hp
Amperage	0.85 amp
Voltage	120V

Attribute	Value
Speed	3450 RPM
Number of Speeds	1-Speed
Rotation	CCW (Counter-Clockwise)
Bearings	Ball Bearings
Inlet Diameter (OD)	3 3/8 inches
Outlet Diameter (ID)	3 7/17 inches (oval)
Item Weight	0.01 Ounces
UPC	663001034094
ASIN	B001IAUGAA

Installation and Setup

Note: Installation should only be performed by a qualified HVAC technician.

1. **Disconnect Power:** Before beginning, ensure the main power supply to the furnace or heating appliance is completely disconnected at the circuit breaker or fuse box. Verify with a voltage tester.
2. **Access Old Unit:** Locate the existing draft inducer motor. Depending on your furnace model, you may need to remove access panels or other components.
3. **Disconnect Wiring:** Carefully label and disconnect all electrical wiring connected to the old draft inducer motor. Take photos if necessary for reference.
4. **Remove Old Unit:** Unbolt or unmount the old draft inducer from its housing or mounting bracket. Note the orientation for proper installation of the new unit.
5. **Inspect and Clean:** Inspect the mounting area for any debris or corrosion. Clean the area thoroughly if needed.
6. **Install New Unit:** Position the FASCO FB-RFB52 in the same orientation as the old unit. Secure it using the appropriate bolts or mounting hardware. Ensure a snug fit to prevent air leaks.
7. **Connect Wiring:** Reconnect the electrical wiring to the new draft inducer motor, matching the labels or referring to your photos. Ensure all connections are tight and secure.
8. **Verify Connections:** Double-check all mechanical and electrical connections before restoring power.
9. **Restore Power:** Once installation is complete and verified, restore power to the furnace or heating appliance.
10. **Test Operation:** Initiate a heating cycle to ensure the draft inducer operates correctly, drawing combustion gases efficiently. Listen for unusual noises and check for proper airflow.

Operation

The FASCO FB-RFB52 High Efficiency Draft Inducer operates automatically as part of your furnace or heating system's combustion process. When the thermostat calls for heat, the furnace control board initiates the draft inducer motor.

- The draft inducer creates a negative pressure (draft) within the combustion chamber, pulling fresh air into the burner and expelling combustion byproducts through the exhaust vent.
- Once sufficient draft is established, a pressure switch (part of the furnace system, not the inducer itself) closes, signaling the control board that it is safe to ignite the burners.
- The draft inducer continues to operate throughout the heating cycle to ensure proper ventilation and safe operation.
- Upon completion of the heating cycle, the draft inducer will typically continue to run for a short period (post-purge cycle) to clear any remaining combustion gases before shutting off.

No user intervention is required for the daily operation of the draft inducer once properly installed.

Maintenance

Regular maintenance helps ensure the longevity and efficient operation of your draft inducer. It is recommended that a qualified technician perform annual inspections and maintenance.

- **Annual Inspection:** Have the draft inducer inspected annually by a qualified HVAC technician. They will check for signs of wear, corrosion, or damage to the motor, fan wheel, and housing.
- **Cleaning:** Over time, dust and debris can accumulate on the fan wheel and inside the housing, reducing efficiency. With power disconnected, carefully clean the fan wheel and housing using a soft brush or vacuum cleaner. Avoid using liquids directly on the motor.
- **Vibration Check:** During operation, listen for any unusual noises or excessive vibrations, which could indicate a failing motor or unbalanced fan wheel.
- **Wiring Check:** Periodically inspect the electrical wiring for any signs of fraying, cracking, or loose connections.
- **Bearing Lubrication:** This unit features sealed ball bearings and typically does not require lubrication. Do not attempt to lubricate the bearings unless specifically instructed by the manufacturer.

Troubleshooting

If you experience issues with your draft inducer, refer to the table below for common problems and potential solutions. Always disconnect power before attempting any troubleshooting or repairs.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Draft inducer does not start	No power to the unit Faulty wiring connection Motor failure Pressure switch issue (furnace)	Check circuit breaker/fuse Verify wiring connections Test motor for continuity (qualified technician) Consult furnace manual or technician
Unit makes loud or unusual noises	Debris in fan housing Worn bearings Unbalanced fan wheel	Disconnect power and inspect/clean fan Motor replacement may be required Motor replacement may be required
Furnace cycles on and off rapidly (short cycling)	Insufficient draft Blocked exhaust vent Faulty pressure switch	Check for obstructions in exhaust system Ensure proper airflow Consult furnace manual or technician
Unit runs continuously	Faulty control board (furnace) Stuck pressure switch	Consult furnace manual or technician

If troubleshooting steps do not resolve the issue, or if you are unsure about performing any repair, contact a qualified HVAC technician.

Warranty Information

The FASCO FB-RFB52 High Efficiency Draft Inducer comes with a**1 Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service.
The warranty does not cover damage resulting from improper installation, misuse, abuse, neglect, accident, unauthorized repair or alteration, or acts of nature. Any attempt to disassemble or modify the unit will void the warranty.
For warranty claims, please retain your proof of purchase and contact your original point of sale or the manufacturer directly with your product model and serial number (if applicable).

Support

For technical assistance, installation questions, or warranty inquiries, please contact your authorized FASCO distributor or a qualified HVAC professional.
Always refer to your furnace or heating appliance's specific manual for compatibility and detailed system information.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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