

# Coleman Furnace Manual

## INSTALLATION MANUAL

DOWNFLOW/UPFLOW  
ELECTRIC FURNACE

MODELS: EB



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### SECTION I: GENERAL

The following list includes important facts and information regarding the EB furnace and its packaging inclusions:

1. Furnace is rated at 240 volts, 60 Hz, single phase.
2. Heating and Cooling thermostat is packed with furnace.
3. Filters are furnished with each model, and are the same for all models - 16 x 20 x 1.
4. Furnace size is the same for all models. See Figure 1.
5. Four-wire thermostat operation for heating and cooling.
6. Coil cavity built into furnace.
7. All furnaces are equipped with an air conditioner blower and is A/C or Heat Pump ready.
8. Holding strap furnished on top rear of furnace.
9. This furnace is designed for downflow application; however, it may be converted to an upflow application. (See Page 6 for upflow conversion instruction.)
10. This furnace must not be operated without the front panel installed.

**NOTE:** This furnace and its components listed on the A/C and Heat Pump equipment sticker were listed in combination as a system by Underwriter's Laboratories for the United States and Canada.

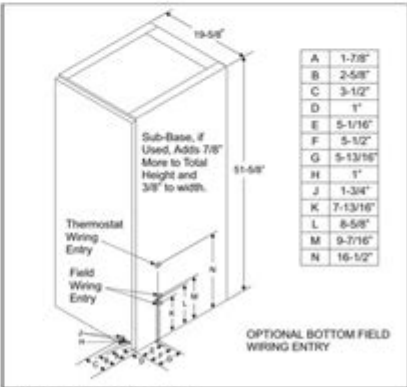


FIGURE 1: Furnace Dimensions

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Coleman furnace manual is an essential resource for homeowners and technicians alike, providing comprehensive guidance on the installation, operation, maintenance, and troubleshooting of Coleman furnaces. As one of the leading manufacturers of heating systems, Coleman has developed a range of furnaces designed to meet the diverse needs of residential heating. This article will explore various aspects of the Coleman furnace manual, including its importance, key features, and tips for effective use.

## Importance of the Coleman Furnace Manual

Understanding the significance of the Coleman furnace manual is crucial for anyone using or servicing these heating systems. The manual serves several important purposes:

1. **Installation Guidelines:** The manual provides detailed instructions for proper installation, ensuring that the furnace operates efficiently and safely.
2. **Operational Instructions:** It outlines how to use the heating system effectively, including thermostat settings and operation modes.
3. **Maintenance Procedures:** Regular maintenance is key to prolonging the life of a furnace. The manual includes schedules and steps for upkeep.
4. **Troubleshooting Assistance:** Homeowners can often diagnose and fix minor issues by following troubleshooting tips provided in the manual.
5. **Safety Information:** Ensuring safety is paramount when operating any heating system; the manual includes important safety precautions to avoid accidents.

## Getting Started with Your Coleman Furnace

Before diving into the functionalities of your Coleman furnace, it's essential to familiarize yourself with the basic components and features.

### Components of a Coleman Furnace

Understanding the various parts of your Coleman furnace can help you grasp its operation better:

- **Blower Motor:** Circulates air through the home and is crucial for the heating process.
- **Heat Exchanger:** Transfers heat from the combustion process to the air that is circulated throughout your home.
- **Thermostat:** Controls the temperature settings and communicates with the furnace to maintain desired heat levels.
- **Burner Assembly:** Where fuel is burned to create heat.
- **Flue Pipe:** Ventilation system for exhaust gases produced during combustion.

### Initial Setup

Setting up your Coleman furnace requires careful attention to detail. Here are the steps to follow:

1. **Select the Location:** Choose a suitable area for installation, ensuring it complies with local codes and regulations.
2. **Prepare the Area:** Clear the area of debris and ensure there is adequate space for maintenance access.
3. **Install the Furnace:** Follow the step-by-step installation guide in the manual. This usually includes connecting gas lines, electrical wiring, and ductwork.
4. **Connect the Thermostat:** Install and program the thermostat according to the manual's instructions.
5. **Test the System:** Once everything is connected, turn on the furnace to test its functionality.

# Operating Your Coleman Furnace

Once your furnace is installed, it's important to operate it correctly for optimal performance.

## Thermostat Settings

The thermostat is the control center of your heating system. Here are tips for effective thermostat management:

- Set Desired Temperature: Adjust the thermostat to your preferred comfort level.
- Use Programmable Features: If equipped, utilize programmable settings to save energy by lowering the temperature when you're away.
- Avoid Frequent Adjustments: Constantly changing the temperature can lead to increased energy consumption.

## Operating Modes

Coleman furnaces typically come with various operating modes. Knowing how to switch between them can enhance efficiency:

- Auto Mode: The furnace automatically turns on or off based on the thermostat setting.
- On Mode: The fan runs continuously, providing consistent air circulation but may increase energy costs.
- Heat Mode: Engages the heating function when the temperature drops below the thermostat setting.

## Maintenance and Care

Regular maintenance is essential for keeping your Coleman furnace running smoothly and efficiently.

## Maintenance Schedule

Following a maintenance schedule can help prevent breakdowns and extend the life of your furnace. Here's a recommended schedule:

- Monthly: Check and replace the air filter if necessary. A clean filter improves airflow and efficiency.
- Seasonal: Inspect the furnace before the heating season. Look for signs of wear, check connections, and clean the heat exchanger.
- Annually: Hire a professional technician to perform a comprehensive inspection, including cleaning and testing the entire system.

# Common Maintenance Tasks

Performing these tasks can help maintain your furnace:

- Cleaning the Filter: Remove and clean or replace the air filter every month, especially during peak usage.
- Inspecting Ductwork: Check for leaks or blockages in the duct system that could hinder airflow.
- Checking Vents: Ensure that vents are not blocked by furniture or debris to allow for proper airflow.
- Lubricating Moving Parts: Lubricate motor bearings and other moving parts to reduce friction and wear.

# Troubleshooting Common Issues

Even with regular maintenance, issues can arise. The Coleman furnace manual provides troubleshooting tips for common problems.

## Identifying Issues

Here are some common issues you might encounter:

- Furnace Does Not Start: Check the power supply, thermostat settings, and ensure the gas valve is open.
- Inconsistent Heating: Inspect the air filter, ductwork, and vents for blockages.
- Unusual Noises: Noises could indicate mechanical problems, such as a failing blower motor or loose components.

## Troubleshooting Steps

For each issue, follow these steps:

1. Furnace Does Not Start:
  - Ensure the thermostat is set to "Heat."
  - Check the circuit breaker or fuse.
  - Inspect the gas supply line.
2. Inconsistent Heating:
  - Replace or clean the air filter.
  - Inspect ducts for leaks.
  - Check for closed or obstructed vents.
3. Unusual Noises:
  - Identify the source of the noise (rattling, humming, etc.).
  - Tighten any loose screws or components.

- If the noise persists, consult a professional technician.

## **Conclusion**

The Coleman furnace manual is a vital tool for anyone operating or maintaining a Coleman furnace. It provides essential information on installation, operation, maintenance, and troubleshooting, ensuring that your heating system runs efficiently and safely. By following the guidelines outlined in the manual, homeowners can enjoy reliable warmth during cold months while extending the lifespan of their heating system. Regular maintenance and timely troubleshooting will not only enhance comfort but also keep energy costs in check, making it a worthwhile investment in your home. Always remember to prioritize safety and consult the manual for any specific concerns or questions about your Coleman furnace.

## **Frequently Asked Questions**

### **Where can I find a Coleman furnace manual online?**

You can find a Coleman furnace manual on the official Coleman website or by searching for 'Coleman furnace manual PDF' on Google. Several HVAC websites also offer downloadable manuals.

### **What should I do if I lost my Coleman furnace manual?**

If you've lost your manual, you can download a replacement from the Coleman website or contact their customer service for assistance.

### **How do I troubleshoot my Coleman furnace using the manual?**

Refer to the troubleshooting section in the manual, which typically provides common issues, error codes, and step-by-step solutions to resolve problems.

### **What are the maintenance tips provided in the Coleman furnace manual?**

The manual usually includes tips such as changing the air filter regularly, cleaning the burners, and scheduling annual professional inspections.

### **Is there a difference between the Coleman furnace manual for different models?**

Yes, each model may have specific features and maintenance requirements, so it's important to refer to the manual that corresponds to your exact model.

### **Can I perform repairs on my Coleman furnace using the**

## manual?

The manual may provide guidance for basic repairs, but for major issues, it's recommended to consult a professional HVAC technician.

## What safety precautions are mentioned in the Coleman furnace manual?

The manual typically outlines safety precautions such as turning off power before servicing, ensuring proper ventilation, and checking for gas leaks.

## How often should I refer to the Coleman furnace manual?

It's a good idea to refer to the manual during seasonal maintenance, if you encounter issues, or whenever you have questions about your furnace's operation.

## Does the Coleman furnace manual include warranty information?

Yes, the manual usually contains warranty details, including the duration and terms, so you can check your coverage in case of repairs or replacements.

## What should I do if my Coleman furnace is making unusual noises as per the manual?

The manual will typically list potential causes for unusual noises and suggest steps to investigate or resolve the issue, such as checking for loose parts or calling for service.

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