

Amana Gas Furnace Installation Manual



Air Conditioning & Heating

80% AFUE

HEATING INPUT:
45,000–140,000 BTU/H

Standard Features

- Dual-diameter tubular heat exchanger
- Single-stage combination redundant gas valve
- Norton hot surface mini-igniter
- Quiet multi-speed direct-drive circulator blower motor
- Furnace control board with self-diagnostics and low-voltage terminal block
- Quiet single-speed, induced-draft blower

Cabinet Features

- Foil-faced insulation lines the heat exchanger compartment
- Factory sealed to achieve 2% or less leakage rate at 1.0" water gauge external duct static pressure
- Designed for multi-position installation:
GMS8 and GHS8: upflow, horizontal left or right
GDS8: dedicated downflow
- Coil and furnace fit flush for most installations

GMS8/GDS8/GHS8

**MULTI-POSITION,
MULTI-SPEED
GAS FURNACES**



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* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the Lifetime Heat Exchanger Limited Warranty (good for as long as you own your furnace) and 10 Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.



SS-GMS8

www.goodmanmfg.com

3/11
Supersedes 11/10

Amana Gas Furnace Installation Manual is a crucial resource for anyone looking to install an Amana gas furnace. Proper installation is essential for maximizing efficiency, ensuring safety, and extending the lifespan of your heating system. This article will provide a comprehensive overview of the key elements of the Amana gas furnace installation process, along with tips, tools, and safety precautions.

Understanding Your Amana Gas Furnace

Before diving into the installation process, it is important to familiarize yourself with the various components of your Amana gas furnace. Understanding how your furnace operates will make the installation process easier and more efficient.

Key Components of an Amana Gas Furnace

1. Heat Exchanger: This component transfers heat from the combustion process to the air circulating through your home.
2. Burner: The burner ignites the gas to produce heat.
3. Blower Motor: This motor circulates heated air throughout your home.
4. Thermostat: This device regulates the temperature by controlling the furnace's operation.
5. Vent System: Proper venting is crucial to expel exhaust gases safely outside your home.

Preparation for Installation

Before you begin the installation process, it is essential to prepare adequately. Having the right tools and materials on hand will streamline the process and help avoid unnecessary delays.

Tools and Materials Needed

- Tools:
 - Screwdrivers (Phillips and flathead)
 - Adjustable wrench
 - Pipe wrenches
 - Level
 - Tape measure
 - Drill and drill bits
 - Safety goggles
 - Work gloves
- Materials:
 - New Amana gas furnace unit
 - Gas line (if not already installed)
 - Vent pipe
 - Ductwork (if needed)
 - Electrical wiring
 - Insulation materials

Safety Precautions

Safety is paramount during the installation of any gas appliance. Follow these precautions to ensure a safe installation:

- Always wear safety goggles and gloves.
- Shut off the gas supply before beginning any work.
- Ensure proper ventilation in the work area.

- Use a carbon monoxide detector in the vicinity of the furnace.
- If you are unsure about any step in the process, consult the installation manual or contact a professional.

Step-by-Step Installation Process

The installation of an Amana gas furnace can be broken down into several key steps. Follow this guide for a successful installation.

1. Choose the Right Location

Selecting an appropriate location for your furnace is essential. Consider the following factors:

- Proximity to gas and electrical connections
- Accessibility for maintenance
- Adequate clearance from walls and obstructions
- Proper ventilation for exhaust gases

2. Prepare the Area

Once you have chosen a location, prepare the area:

- Clear the space of any obstructions.
- Ensure the floor is level and capable of supporting the weight of the furnace.
- Check for existing ducts and vents.

3. Install the Base and Furnace

- Position the Base: If your model requires a base, install it first. Ensure it is level and secured.
- Set the Furnace: Carefully lift the furnace into place, ensuring that it aligns with the base and any existing ductwork.

4. Connect the Gas Line

- Install Gas Valve: Connect the gas valve to the furnace. Ensure all connections are tight to prevent leaks.
- Test for Leaks: After connecting the gas line, use a gas leak detector or a soap solution to check for leaks.

5. Connect the Venting System

Proper venting is crucial for safety and efficiency. Follow these guidelines:

- Install Vent Pipe: Connect the vent pipe to the furnace and ensure it runs safely outside.
- Seal Connections: Use appropriate sealants to seal all joints in the venting system.

6. Electrical Connections

- Wiring: Connect the furnace to the electrical supply according to the manufacturer's instructions. Ensure all connections are secure and insulated.
- Thermostat Wiring: If your furnace is controlled by a thermostat, connect the wiring from the thermostat to the furnace.

7. Test the System

Once everything is connected, it's time to test the system:

- Turn on the Gas Supply: Slowly turn on the gas supply and check for leaks again.
- Power On: Turn on the electrical supply to the furnace.
- Set the Thermostat: Adjust the thermostat to initiate the furnace operation.
- Monitor Performance: Observe the furnace for a few minutes to ensure it is functioning properly without any unusual noises or issues.

Post-Installation Considerations

After you have successfully installed your Amana gas furnace, there are several important steps to take to ensure continued performance and safety.

Regular Maintenance

To extend the life of your furnace and maintain efficiency, regular maintenance is crucial. Consider the following maintenance tasks:

- Change or clean air filters every 1-3 months.
- Schedule annual professional inspections and servicing.
- Keep the area around the furnace clear of debris.

Understanding Warranty and Support

Familiarize yourself with the warranty terms provided by Amana for your furnace. Register your product online to ensure you receive any updates or recall notices. If you encounter issues, refer to the installation manual or contact Amana's customer service for support.

Conclusion

Installing an Amana gas furnace is a manageable task for those with basic plumbing and electrical skills. Following the steps outlined in the Amana gas furnace installation manual will ensure that your furnace is set up safely and efficiently. However, if at any point you feel unsure, do not hesitate to consult with a professional technician. Regular maintenance and proper installation will lead to a comfortable, warm home and a furnace that operates efficiently for years to come.

Frequently Asked Questions

Where can I find the Amana gas furnace installation manual?

You can find the Amana gas furnace installation manual on the official Amana website under the 'Support' or 'Downloads' section, or by contacting their customer service.

What tools do I need for installing an Amana gas furnace?

Common tools required for installing an Amana gas furnace include a screwdriver set, wrenches, pliers, a level, a drill, and potentially a gas pressure gauge.

Are there specific safety precautions to take when installing an Amana gas furnace?

Yes, always ensure the gas supply is turned off, use proper ventilation, and follow local building codes and safety regulations. It's also recommended to wear safety gear.

Can I install an Amana gas furnace myself, or should I hire a professional?

While it is possible to install an Amana gas furnace yourself if you have the necessary skills, it is generally recommended to hire a professional to ensure safety and compliance with local codes.

What are the common errors to avoid during the installation of an Amana gas furnace?

Common errors include improper venting, incorrect gas line connections, neglecting to level the furnace, and failing to follow the manufacturer's wiring diagrams.

How do I properly vent my Amana gas furnace during installation?

Follow the installation manual's guidelines for venting, ensuring that you use the correct type of venting materials and that the vent is installed at the proper angle and height according to local codes.

What should I do if I lost my Amana gas furnace installation manual?

If you lost your installation manual, you can download a copy from the Amana website or contact their customer support for assistance in obtaining a new one.

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