

# Armstrong Furnace Ultra 80 Gas Manual



**G1D80BT**



**ULTRA V**  
ADVANTAGE 80

## 80% Gas Furnace Upflow/Horizontal

### HEAT EXCHANGER

- Efficient aluminized steel tapered S-curve
- Crimped no weld construction for longer life

### CABINET

- Compact 40" height
- Insulated to increase efficiency and reduce sound levels
- Unitized construction for cabinet integrity
- Prepainted steel for maximum durability

### BLOWER

- Isolated and insulated compartment to reduce sound levels
- Easily removable slide-out design
- Multi-speed for wide airflow range
- PSC permanently lubricated motor for low maintenance and optimum efficiency
- Dynamically balanced blower with resilient motor mounts for smooth and quiet operation

### BURNERS

- Aluminized steel inshot burners for smooth ignition
- Sound attenuating burner enclosure

### CONTROLS

- Honeywell 24 V gas valve
- Integrated ignition and fan control board
- Board features self diagnostics as well as saving last five (5) fault codes in nonvolatile memory for ease of service
- Provides reverse polarity protection
- Hot surface ignition using steel shrouded, high density Norton Mini-Ignitor™
- Fan control board features adjustable fan off time in the heating mode and a 60 second fan off time delay in the cooling mode
- Fan control board provides terminals for electronic air cleaner, humidifier, furnace twinning, and continuous low speed fan operations
- Control circuit is fuse protected
- 40 VA transformer
- Color coded control wiring

### VENTING

- Permanently lubricated draft motor with stainless steel shaft and air cooled for long life
- Category 1 direct vent capable
- Outside combustion air optional

### INSTALLATION

- Left or right gas entry
- Left or right electrical power entry
- "L" models comply with California Low NOx regulations

### ACCESSORIES

- Propane conversion kit
- Twinning kit
- "Flush fit" coils
- Side return filter kit

### WARRANTY

- 20 year limited heat exchanger warranty
- 5 year limited on all parts
- Extended protection plans available



Armstrong Furnace Ultra 80 Gas Manual is an essential resource for homeowners and technicians alike, providing comprehensive guidance on the operation, maintenance, and troubleshooting of the Armstrong Ultra 80 gas furnace. This furnace model is known for its efficiency and reliability, making it a popular choice in residential heating systems. In this article, we will delve into the features, operation, maintenance, and troubleshooting of the Armstrong Ultra 80 gas furnace, helping users maximize the performance and lifespan of their unit.

## Overview of the Armstrong Ultra 80 Gas Furnace

The Armstrong Ultra 80 gas furnace is designed to provide efficient heating

for residential spaces. With a focus on energy efficiency, this model boasts an Annual Fuel Utilization Efficiency (AFUE) rating of up to 80%, translating to lower energy bills and reduced environmental impact. The furnace operates using natural gas or propane and is equipped with advanced technology to ensure optimal performance.

## **Key Features**

1. **High AFUE Rating:** The Ultra 80 is designed to convert a significant portion of gas to heat, making it energy-efficient.
2. **Multi-Speed Blower:** Ensures consistent temperature and airflow throughout the home.
3. **Durability:** Constructed with high-quality materials, the furnace is built to last.
4. **Quiet Operation:** Designed for reduced noise levels, allowing for a more comfortable living environment.
5. **Compact Design:** Ideal for homes with limited space, the furnace can be easily installed in various locations.

## **Understanding the Components**

To fully utilize the Armstrong Ultra 80 gas furnace, it is crucial to understand its main components and their functions. Here are the key parts:

### **Burner Assembly**

- **Ignitor:** Responsible for igniting the gas.
- **Burners:** Where the gas is combusted to produce heat.

### **Heat Exchanger**

- Transfers heat from the burner to the air, allowing for efficient heating.

### **Blower Motor**

- Circulates warm air throughout the home.

### **Control Board:**

- Acts as the brain of the furnace, regulating operation and safety mechanisms.

## **Flue Pipe**

- Directs exhaust gases outside of the home.

## **Operating the Armstrong Ultra 80 Gas Furnace**

Operating the Armstrong Ultra 80 gas furnace is straightforward. Below are essential steps and considerations for optimal functionality.

### **Starting the Furnace**

1. Thermostat Setting: Set the thermostat to the desired temperature.
2. Power Supply: Ensure the furnace is connected to a power source and that the circuit breaker is on.
3. Gas Supply: Confirm that the gas supply is turned on.

### **Seasonal Operation Tips**

- Pre-Heating: Before the heating season, run the furnace for a short time to check its functionality.
- Regular Monitoring: Keep an eye on the thermostat settings and make adjustments as needed.

## **Maintenance of the Armstrong Ultra 80 Gas Furnace**

Regular maintenance is crucial for ensuring the longevity and efficiency of the Armstrong Ultra 80 gas furnace. Below are maintenance tasks homeowners should undertake.

### **Routine Maintenance Checklist**

- Change Air Filters: Replace or clean filters every 1-3 months to maintain airflow.
- Inspect Ductwork: Check for leaks or blockages in the duct system.
- Clean the Blower: Regularly clean the blower assembly to prevent dust buildup.
- Examine the Heat Exchanger: Inspect for cracks or corrosion, as this can lead to serious issues.
- Check the Flue Pipe: Ensure it is clear of obstructions to prevent backdrafts.

## Professional Maintenance

- Schedule an annual inspection and tune-up with a licensed HVAC technician to ensure all components are functioning correctly and safely.

## Troubleshooting Common Issues

Despite its reliability, users may encounter problems with the Armstrong Ultra 80 gas furnace. Here are some common issues and troubleshooting tips.

### Common Problems and Solutions

1. Furnace Won't Start:
  - Check the thermostat settings.
  - Ensure the power supply and gas supply are on.
2. Inconsistent Heating:
  - Replace or clean the air filters.
  - Inspect ductwork for blockages or leaks.
3. Unusual Noises:
  - Rattling or banging may indicate loose components; tighten screws and bolts.
  - High-pitched whistling could suggest airflow issues; check filters and ducts.
4. Foul Odors:
  - A burning smell may occur during initial startup; this is usually dust burning off.
  - A gas smell indicates a serious issue; turn off the gas supply and call a professional immediately.
5. Error Codes:
  - Reference the control board for any error codes displayed and consult the manual for specific troubleshooting steps.

### When to Call a Professional

- If you encounter persistent issues that you cannot resolve.
- For any maintenance tasks that involve disassembly of the furnace or gas line inspections.

## Conclusion

The Armstrong Furnace Ultra 80 Gas Manual serves as a vital tool for

understanding and maintaining this reliable heating system. With its impressive features, energy efficiency, and ease of use, the Ultra 80 is a valuable investment for homeowners seeking comfortable and reliable heating. By following the operational guidelines, conducting regular maintenance, and troubleshooting common issues, users can ensure their furnace operates efficiently for many years. Always remember that while many tasks can be handled independently, never hesitate to reach out to a professional for assistance with complex issues to maintain safety and efficiency.

## **Frequently Asked Questions**

### **What is the primary function of the Armstrong Ultra 80 gas furnace?**

The Armstrong Ultra 80 gas furnace is designed to provide efficient heating for residential spaces, utilizing natural gas to generate warmth while minimizing energy consumption.

### **Where can I find the user manual for the Armstrong Ultra 80 gas furnace?**

The user manual for the Armstrong Ultra 80 gas furnace can typically be found on the manufacturer's official website or by contacting customer service directly for a digital or physical copy.

### **What are the key maintenance tips for the Armstrong Ultra 80 gas furnace?**

Key maintenance tips include regularly changing the air filter, cleaning the furnace components, checking the venting system, and scheduling annual professional inspections to ensure optimal performance.

### **How do I troubleshoot common issues with the Armstrong Ultra 80 gas furnace?**

Common troubleshooting steps include checking the thermostat settings, ensuring the gas supply is on, inspecting the pilot light, and looking for error codes on the control panel, which can provide specific diagnostic information.

### **What efficiency rating does the Armstrong Ultra 80 gas furnace have?**

The Armstrong Ultra 80 gas furnace typically has an efficiency rating of around 80% AFUE (Annual Fuel Utilization Efficiency), which means it converts 80% of the fuel it uses into heat.

## Is the Armstrong Ultra 80 gas furnace suitable for large homes?

Yes, the Armstrong Ultra 80 gas furnace is suitable for large homes, but it's important to choose the appropriate size and model based on the specific heating requirements of the space.

## What kind of warranty is offered with the Armstrong Ultra 80 gas furnace?

The Armstrong Ultra 80 gas furnace usually comes with a limited warranty that covers parts for a specific duration, often ranging from 5 to 10 years, depending on the model and registration status.

## Can I install the Armstrong Ultra 80 gas furnace myself?

It is recommended to have a professional HVAC technician install the Armstrong Ultra 80 gas furnace to ensure it is done safely and in compliance with local codes and regulations.

## What features make the Armstrong Ultra 80 gas furnace energy efficient?

The Armstrong Ultra 80 gas furnace features a multi-speed blower, an efficient heat exchanger, and an electronic ignition system, all contributing to its energy efficiency and lower operational costs.

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