

# Armstrong Ultra 80 Furnace Manual



**G1D80BT**



**ULTRA**   
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 Ultra 80 Furnace Manual

The Armstrong Ultra 80 furnace is a popular choice among homeowners looking for an efficient heating solution. Known for its reliability, durability, and energy efficiency, the Ultra 80 series has gained a reputation as a trustworthy option for residential heating needs. This article will provide a comprehensive guide to the Armstrong Ultra 80 furnace manual, detailing its features, installation, maintenance, troubleshooting, and more.

## Overview of the Armstrong Ultra 80 Furnace

The Armstrong Ultra 80 furnace is designed to provide efficient heating for medium to large homes. It features a multi-speed blower motor, which enhances comfort levels by ensuring even distribution

of warm air throughout the living space. Additionally, this furnace is recognized for its high Annual Fuel Utilization Efficiency (AFUE) rating, making it an energy-efficient option.

## Key Features

- High Efficiency: With an AFUE rating of up to 80%, the Ultra 80 can significantly reduce heating bills.
- Quiet Operation: The multi-speed blower operates quietly, ensuring minimal disruption.
- Durable Construction: Made with high-quality materials, this furnace is built to last.
- Variable-Speed Blower: The blower adjusts its speed based on heating demand, providing optimal comfort.
- Compact Design: The space-saving design allows for easy installation in various locations.

## Installation Guidelines

Proper installation of the Armstrong Ultra 80 furnace is crucial for optimal performance and efficiency. Here are the steps to follow during installation:

### Pre-Installation Checklist

Before beginning the installation process, ensure that you have the following tools and materials:

- Screwdrivers (flathead and Phillips)
- Wrenches
- Level
- Duct tape
- Safety goggles
- User manual
- Gas line (if applicable)
- Venting materials

### Steps to Install

1. Choose the Location: Select a suitable location for the furnace, ensuring that it is accessible for maintenance and servicing. The area should also provide adequate ventilation.
2. Install the Base: Use a level to position the furnace base securely. Ensure it is on a solid surface.
3. Connect Ductwork: Attach the ductwork to the furnace. Use duct tape to seal any joints to prevent air leaks.
4. Gas and Electrical Connections: If your model is gas-powered, connect the gas line following local codes. Ensure that electrical connections are made according to the manufacturer's specifications.

5. Venting: Install the venting system to exhaust gases safely outside. Ensure that the vent is free from obstructions.
6. Final Checks: Once everything is connected, double-check all connections for leaks or loose fittings.
7. Power On: Turn on the power supply to the furnace and set the thermostat to the desired temperature.

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

Operating the Armstrong Ultra 80 furnace is straightforward. The user manual provides detailed instructions on how to set and adjust the thermostat, as well as how to operate the furnace efficiently.

### **Thermostat Settings**

- Heating Mode: Set the thermostat to "Heat" to begin the heating process.
- Temperature Adjustment: Adjust the desired temperature using the up and down buttons.
- Fan Settings: Choose between "Auto" and "On" settings for the blower fan.

## **Maintenance Tips**

Regular maintenance is essential to ensure the longevity and efficiency of your Armstrong Ultra 80 furnace. Follow these maintenance tips:

### **Monthly Maintenance**

- Check Air Filters: Inspect and replace air filters monthly to ensure optimal airflow and efficiency.
- Inspect Vents: Ensure that supply and return vents are unobstructed and clean.

### **Seasonal Maintenance**

- Professional Inspection: Have a professional technician inspect the furnace at least once a year before the heating season.
- Clean the Blower: Dust and debris can accumulate in the blower; ensure it is clean for efficient operation.
- Check Ductwork: Inspect ductwork for leaks or blockages and seal any gaps.

## **Cleaning the Furnace**

- Turn Off Power: Before cleaning, turn off the power supply to the furnace.
- Wipe Down Surfaces: Use a damp cloth to wipe down surfaces and remove dust.
- Vacuum the Area: Vacuum around the furnace to minimize dust buildup.

## **Troubleshooting Common Issues**

Even the best furnaces can encounter issues. Here are some common problems and their solutions:

### **Furnace Won't Start**

- Check Thermostat Settings: Ensure that the thermostat is set to "Heat" and that the temperature is set higher than the current room temperature.
- Power Supply: Confirm that the furnace is receiving power. Check circuit breakers and fuses.

### **Inadequate Heating**

- Blocked Vents: Ensure that supply and return vents are free from obstructions.
- Dirty Air Filters: Replace or clean air filters if they are dirty.

### **Strange Noises**

- Banging or Clunking: This may indicate loose components; check and tighten any loose screws.
- Whistling: This could be due to airflow restrictions; inspect the ductwork for blockages.

## **Conclusion**

The Armstrong Ultra 80 furnace is an excellent choice for homeowners seeking an efficient and reliable heating solution. By following the guidelines and tips outlined in this article, you can ensure proper installation, operation, and maintenance of your furnace. In case of persistent issues, it is always advisable to consult the user manual or contact a professional technician for assistance. The Ultra 80 not only offers comfort but also energy savings that can enhance your home's heating experience for years to come.

## **Frequently Asked Questions**

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

You can find the Armstrong Ultra 80 furnace manual on the manufacturer's official website or through HVAC service providers that offer documentation for older models.

## **What are common troubleshooting steps outlined in the Armstrong Ultra 80 furnace manual?**

Common troubleshooting steps include checking the thermostat settings, inspecting the air filter for clogs, ensuring the power supply is on, and examining the blower motor for proper operation.

## **How do I reset my Armstrong Ultra 80 furnace according to the manual?**

To reset your Armstrong Ultra 80 furnace, turn off the power to the unit, wait for about 30 seconds, and then turn the power back on. This should reset the system and clear any lockout conditions.

## **What maintenance tasks are recommended in the Armstrong Ultra 80 furnace manual?**

Recommended maintenance tasks include replacing or cleaning the air filter monthly, checking and cleaning the burners, inspecting the flue pipe for obstructions, and scheduling annual professional inspections.

## **What type of fuel does the Armstrong Ultra 80 furnace use?**

The Armstrong Ultra 80 furnace typically operates on natural gas or propane, depending on the specific model and setup.

## **What should I do if my Armstrong Ultra 80 furnace is making unusual noises?**

If your furnace is making unusual noises, refer to the manual for specific diagnostics. Common causes include loose components, airflow issues, or problems with the blower motor. It's best to consult a professional if the issue persists.

Find other PDF article:

<https://soc.up.edu.ph/28-font/Book?docid=dxQ28-8558&title=holt-california-earth-science-workbook-answers.pdf>

## **[Armstrong Ultra 80 Furnace Manual](#)**

*YouTube*

Disfruta los videos y la música que te encantan, sube contenido original y compártelo con tus

amigos, familiares y el resto del mundo en YouTube.

### *YouTube*

Enjoy the videos and music you love, upload original content, and share it all with friends, family, and the world on YouTube.

### *YouTube Music*

With the YouTube Music app, enjoy over 100 million songs at your fingertips, plus albums, playlists, remixes, music videos, live performances, covers, and hard-to-find music you can't ...

### **YouTube - Aplicaciones en Google Play**

Hazte con la aplicación YouTube oficial en tu teléfono o tablet Android. Descubre qué temas están arrasando en todo el mundo: desde los vídeos musicales del momento hasta los ...

### **YouTube**

About Press Copyright Contact us Creators Advertise Developers Terms Privacy Policy & Safety How YouTube works Test new features NFL Sunday Ticket © 2025 Google LLC

### *Music*

Visit the YouTube Music Channel to find today's top talent, featured artists, and playlists. Subscribe to see the latest in the music world. This channel was generated automatically by...

### **YouTube - YouTube**

YouTube's Official Channel helps you discover what's new & trending globally. Watch must-see videos, from music to culture to Internet phenomena

### **YouTube - Apps en Google Play**

Instala la app oficial de YouTube para teléfonos y tablets Android. Descubre lo que está mirando el mundo, desde los videos musicales más populares hasta las tendencias en videojuegos, ...

### YouTube en App Store

Obtén la app oficial de YouTube para iPhones y iPads. Descubre lo que está mirando el mundo, desde los videos musicales más populares hasta las tendencias en videojuegos, moda, ...

### YouTube News

About Press Copyright Contact us Creators Advertise Developers Terms Privacy Policy & Safety How YouTube works Test new features NFL Sunday Ticket © 2025 Google LLC

### University of Michigan

A top-ranked public university, the University of Michigan has a tradition of excellence in research, learning and teaching, sports and the arts, and more.

### **Faculty and Staff › University of Michigan**

The Chronicle of Higher Education says U-M is one of the best university workplaces in the US, and our employees agree. Our faculty and staff make The Michigan Difference.

### Academics › University of Michigan

Michigan's academic vigor offers excellence across disciplines and around the globe. We are recognized as a leader in higher education due to the outstanding quality of our 19 schools ...

### **University of Michigan - Wikipedia**

The University of Michigan (U-M, UMich, or Michigan) is a public research university in Ann Arbor, Michigan, United States. Founded in 1817, it is the oldest institution of higher education in the ...

## **Home | University of Michigan Office of Undergraduate Admissions**

You'll love it here Whether you're completely undecided or firm in your major, there is a place for you to grow and explore new interests at Michigan.

### First-year Application Plans | University of Michigan Office of ...

Effective Fall 2026 Admissions Cycle The University of Michigan offers three application plans for first-year applicants: Early Decision, Early Action, and Regular Decision. We encourage ...

### *U-M in Ongoing Discussions to Kick Off 2026 Season in Germany ...*

4 days ago · The University of Michigan Football program is engaged in ongoing discussions to kick off the 2026 season on foreign soil, playing host to Western Michigan a...

### *Majors & Degrees | University of Michigan Office of ...*

Choosing a MajorList of Majors & Degrees

## **U-M to offer new programs, processes for fall '26 applicants**

Jul 9, 2025 · The University of Michigan is making several enhancements for the fall 2026 application cycle, including adding an option that will allow students to secure their place at U ...

### University of Michigan--Ann Arbor - Profile, Rankings and Data

Find everything you need to know about University of Michigan--Ann Arbor, including tuition & financial aid, student life, application info, academics & more.

Find the Armstrong Ultra 80 furnace manual here! Get detailed instructions and troubleshooting tips to keep your furnace running efficiently. Learn more!

[Back to Home](#)