

# Freedom<sup>®</sup> 80 Gas Furnaces

Exceptional comfort with efficiency in mind.

TODAY



Brutally cold  
outside

## Inside, it's perfectly comfortable.

For more than a century, American Standard Heating & Air Conditioning has been a name you can trust for exceptional comfort and peace of mind. Continually responding to calls for greater efficiency, dependability and versatility, American Standard Heating & Air Conditioning has become one of the largest and most respected manufacturers of innovative home comfort systems – consistently recognized for quality and value by leading consumer-rating magazines.

Our Freedom 80 gas furnaces are designed with inherent durability and reliability to ensure that they deliver maximum comfort for your family. We also build them to be extraordinarily efficient. The result – over 80% of the fuel you pay for is actually converted into heat for your home. What's more, Freedom 80 gas furnaces run quietly with precise temperature control, so you'll enjoy quiet comfort as well as potential savings on your utility bill.

This brochure is a guide to help you choose the right Freedom 80 gas furnace to bring you warm, cozy air inside, even when the weather is brutally cold outside. In fact, your home may become so comfortable, you may think twice about going outside at all.



Reliable  
Comfortable  
Cleaner Air  
High Efficiency  
Quiet

*American Standard<sup>®</sup>*  
HEATING & AIR CONDITIONING

TODAY



Frigid  
outside

Inside it's just the way you like it. Thanks to American Standard Heating & Air Conditioning.

## The whole family will experience the difference a Freedom® 80 furnace can make.

American Standard gas furnaces are intelligently designed with comfort features integrated throughout. When it comes to furnaces, our quality, reliability and absolute dedication to creating an ideal home environment for you and your family are simply unmistakable. Our furnaces are

uniquely designed to provide maximum heat with minimal fuel usage. Each furnace has self-diagnostic controls – or a solid-state “brain” – that monitors operation and continually adjusts performance for maximum efficiency and ultimate comfort in every room of your home.

Reference Copy  
READ ONLY



### Ultimate: Freedom 80 Comfort-R™ Variable-Speed

- AccuLink™ communicating capability with remote monitoring and programming provides increased reliability, efficiency and peace of mind.
- Integrated AccuClean™ technology removes up to 99% of all airborne allergens from filtered air. (select models-not shown)



### Premium: Freedom 80 Two-Stage

- Operates on an energy-conserving, cost-effective first stage a majority of the time, stepping up only during the most extreme conditions.
- Multi-speed blower motor operates quietly and efficiently, gently warming and maintaining comfort.



### Premium: Freedom 80 High Efficiency Single-Stage

- A high efficiency blower motor means every fuel dollar really counts. Packed with innovative features to deliver consistent, quiet comfort year after year.



### Contemporary: Freedom 80 Single-Stage

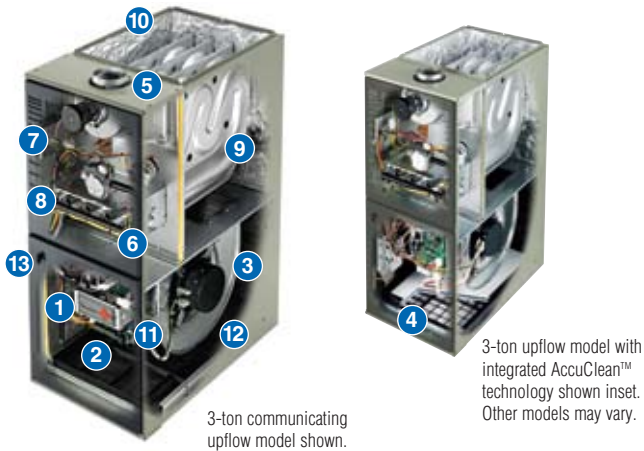
- Operates quietly and efficiently for consistent, affordable comfort.



# The Freedom® 80 family of furnaces: Everything you need to make a home warm, cozy and perfectly welcoming.

## Ultimate

### Freedom® 80 Comfort-R™ Variable-Speed



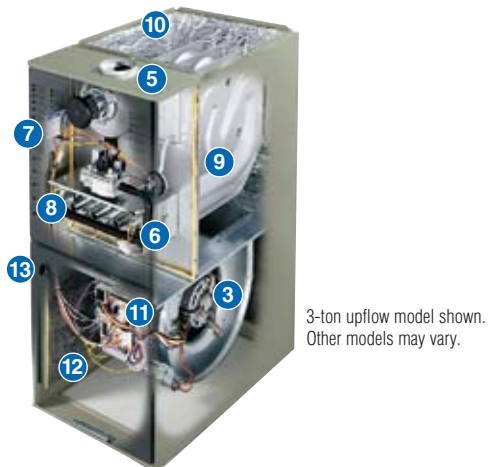
## Premium

### Freedom® 80 Two-Stage Freedom® 80 High Efficiency Single-Stage



## Contemporary

### Freedom® 80 Single-Stage



- 1 AccuLink™ communicating capability with user interface (Select Ultimate models)**  
Enables system to “communicate” its status and settings to the Comfort Control, while also allowing remote monitoring and programming by phone.\* Clearly relays diagnostics to your installer or servicer for responsive maintenance.
- 2 Three-wire connection (Select Ultimate models)**  
Simplified connection to the Comfort Control enables faster, easier installation that is less invasive to your home.
- 3 Variable-speed blower motor with Comfort-R™ (Ultimate models)**  
Electronically controlled motor is more efficient than conventional motors and delivers constant airflow for improved comfort throughout your home. Comfort-R feature allows motor to vary speed, providing enhanced humidity control during cooling.  
**Multi-speed blower motor (Premium and Contemporary models)**  
Operates quietly and efficiently, gently warming and maintaining comfort.
- 4 Integrated AccuClean™ technology (Select Ultimate models)**  
Advanced clean air technology built into the cabinet of your furnace for space-saving convenience and a healthier home. It also helps your furnace work more efficiently and last longer by protecting key components from dirt and dust. (Not available on communicating models.)
- 5 Induced draft venting**  
Quietly draws hot combustion gas through the heat exchanger, maximizing the heat transfer efficiencies of the exchanger design.
- 6 Adaptive hot surface silicon nitride igniter**  
Starts burner electronically for safe, efficient operation – eliminating the need for a fuel-burning pilot light.
- 7 Two-stage gas valve (Ultimate and select Premium models)**  
Results in greater efficiency by providing just the right amount of fuel for each stage.
- 8 Multi-port in-shot burners**  
Perfectly shape the flame cone to maximize heating while using less fuel.
- 9 Aluminized steel heat exchanger**  
Crimped, not welded, to prevent cracks from heat stress. Stamped serpentine channel offers the greatest efficiency in less space.
- 10 Heavy steel insulated cabinet**  
Holds more heat in the furnace to be delivered throughout your home. Helps ensure quiet operation.
- 11 Self-diagnostic controls**  
Manage every function with digital accuracy. Includes safety features and a built-in troubleshooting system.
- 12 Sound-insulated blower compartment**  
Ensures the quietest possible operation.
- 13 Dual door latches (Upflow models only)**  
Provide quick access to AccuClean technology collection cells for cleaning and allow easy replacement on models with standard filter applications.  
**Cleanable filter (Select Ultimate and Premium models)**  
Means you can rinse or vacuum it without buying replacements each time. (Not shown)

\* An American Standard 900 Series Comfort Control is required for all Freedom 80 communicating furnaces. Telephone Access Module (TAM) required for remote system monitoring.

# Freedom<sup>®</sup> 80 gas furnaces deliver dependable warmth – day after day, through the coldest of winters, for years to come.



Your present furnace more than likely allows a temperature swing of 3° to 5° F before turning on or off. With an American Standard Freedom 80, those days are gone forever.

Furnaces with two stages of heat, like our Ultimate and Premium models, typically run at the first, more efficient stage (65% of capacity) most of the time – stepping up to the second stage only during the coldest days for energy-conserving operation that helps you save on your monthly utility bills\*. And when the heating cycle ends, the blower continues to run a few moments longer – increasing air circulation and evenly distributing warmth throughout your home.

## Enjoy a comfortable climate faster with variable-speed and Comfort-R<sup>™</sup>.

Our Ultimate Freedom 80 furnaces come with a variable-speed blower motor and advanced Comfort-R technology for greater comfort and significant energy savings. A variable-speed blower motor puts an end to noisy startups and shutdowns that interrupt your peace and quiet. It also automatically varies its speed based on your comfort demands, reducing temperature variances and operating more efficiently to help you control energy costs\*. And during cooling, the sophisticated Comfort-R feature helps control humidity to reduce dust mites and make your home feel even cooler.

Freedom 80 Features	Ultimate Comfort-R <sup>™</sup> Variable-Speed	Premium Two-Stage High Efficiency Single-Stage	Contemporary Single-Stage
1 AccuLink <sup>™</sup> communicating compatibility	Select Models		
2 Three-wire connection	Select Models		
3 Variable-speed blower motor with Comfort-R <sup>™</sup>	•		
Multi-speed blower motor		•	•
4 Integrated AccuClean <sup>™</sup> technology	Select Models		
Compatible with AccuClean AFD models	Select Models	•	•
5 Induced draft venting	•	•	•
6 Adaptive hot surface silicon nitride igniter	•	•	•
7 Two-stage gas valve	•	•	•
8 Multi-port in-shot burners	•	•	•
9 Aluminized steel heat exchanger	•	•	•
10 Heavy steel insulated cabinet	•	•	•
11 Self-diagnostic controls	•	•	•
12 Sound-insulated blower compartment	•	•	•
13 Dual door latches (Upflow models only)	•	•	•
Cleanable filter	Select Models	•	
Lifetime Limited Warranty on the Heat Exchanger with registration*	•		
20 Year Limited Warranty on the Heat Exchanger with registration*		•	•
10 Year Limited Warranty on Functional Parts with registration*	•		
5 Year Limited Warranty on Functional Parts with registration*		•	•

Relax in quiet comfort... and breathe easier, too.



Designed with innovative, sound-reducing features like insulated cabinets and ultra-quiet blower motors, our Freedom 80 variable-speed furnaces ensure that your family will enjoy the most comfort with the least amount of operating noise. And now with revolutionary AccuClean<sup>™</sup> technology built right into the cabinet of select Ultimate models, it's easier than ever to have cleaner, more comfortable indoor air.

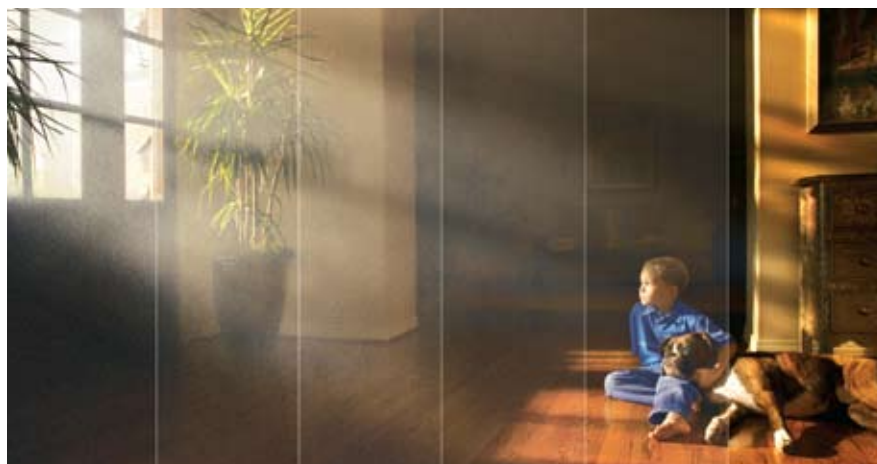
\*Potential energy savings may vary depending on your lifestyle, system settings, equipment maintenance, local climate, home conditions and installation of equipment and duct system.

## Take comfort to the next level.

### Revolutionary AccuClean™ air filtration system: up to 99.98% clean air, everywhere.

Setting the standard for cleaner indoor air, American Standard AccuClean removes up to an astounding 99.98% of airborne allergens from filtered air – capturing particles down to .1 microns – the size that causes the most irritation because they can become trapped in your lungs.\* AccuClean is 100 times more effective than a standard 1" throwaway filter or ionic-type room appliance – performance that's been verified by Environmental Health & Engineering, Inc. and the Harvard School of Public Health. In fact, we believe in this technology so strongly that we've built it into our Ultimate Freedom® 80 furnaces to bring you and your family the peace of mind that comes from a cleaner, healthier home.

AccuClean has the highest clean air delivery rate of any air filtration system on the market and is 100 times more effective than an ionic-type room appliance or standard 1" throwaway filter.



Ionic-Type Room Appliance	1" Throwaway Filter	Typical Room HEPA Appliance	Whole-Home 5" Media Filter	Whole-Home Electronic Filter	Whole-Home AccuClean
10	12	150	240	660	1200*

\*Ratings of cubic feet per minute of clean air delivered for a typical 3-ton heating and cooling system: the higher the value, the more effective the air cleaner.

\* Up to 99.98% effectiveness down to .1 microns applicable to AFD models. Other models may vary.

Clean air delivery rate (efficiency times airflow rate) is recognized by the Federal Trade Commission (FTC) and the Environmental Protection Agency (EPA) as a fair and objective measure of various air cleaner technologies.

## American Standard Heating & Air Conditioning matched systems: Raise your comfort level even more.

When you choose an American Standard Freedom 80 furnace, you'll enjoy the consistent comfort and efficiency it brings — performance that is maximized when you make it part of an American Standard "matched system." A matched system is composed of multiple American Standard Heating & Air Conditioning

products, each designed and engineered to work seamlessly together for a total comfort effect that is greater than the sum of its parts. There is simply no better way to create your ideal home environment. Ask your independent American Standard Heating & Air Conditioning dealer for details.



The most common system is electric/gas:

- 1 Furnace:** indoor unit that uses gas to warm your home in the winter.
- 2 Air conditioner:** outdoor unit that cools your home on the hottest days with reliability you can count on, year after year.
- 3 Indoor coil:** the other, less visible half of your outdoor unit. As indoor air flows across it, heat and moisture are drawn out, leaving air that is cool, comfortable and conditioned.
- 4 Air cleaner:** available as a separate accessory or fully integrated technology on select models, an AccuClean air filtration system removes up to 99.98% of airborne allergens from the filtered air in your home.
- 5 Control:** easy-to-use, easy-to-read, attractively designed thermostats that maximize temperature control.

## Maximize your comfort zone.

Just like customizing a car, you can further enhance your system's performance with options to make your home environment ideal.



### AccuClean™

Traps particles down to .1 microns in size, reducing triggers for asthma and allergy attacks. Vastly outperforms HEPA and ionic-type room appliances. (AFD models)



### Comfort Control

Precisely regulates the temperature for maximum comfort and energy efficiency, and reminds you when a filter change is due.



### Humidifier

Prevents dryness that can cause damage to you and your belongings. Also reduces static electricity.



## Communicating technology for your peace of mind.

You have more important things to do than worry about the efficiency of your home's comfort system; that's why the AccuLink™ communicating system works behind the scenes for you. This special technology is built into specific American Standard products, allowing them to "communicate" with each other. These interfaces allow components in your air conditioning and heating system to be automatically and properly charged, configured and calibrated – not just during installation but throughout the life of your investment. With the efficiency and effectiveness of the system maintained at a high level, you get the sustained reliability and peak performance you expect from American Standard Heating & Air Conditioning.

## Experience Stages of Comfort.

Our Freedom 80 furnaces are designed to maximize heating while minimizing fuel usage. However, as you climb the ladder from single-stage to two-stage and variable-speed Comfort-R™ furnaces, you'll find an increasing number of benefits along the way. For example, two-stage heating makes a big difference during those transitional seasons when you need just a little heat to take the chill out of the air. And during humid summer months, variable-speed Comfort-R furnaces are perfect for controlling humidity.

## Take comfort in our peace-of-mind warranties.

Your investment in an American Standard Freedom 80 furnace is well protected, with limited warranties on the heat exchanger and functional parts. Optional Extended Warranties are also available. Extended Warranties can pay for labor and other costs not covered by the manufacturer's limited warranty. Ask your dealer for full warranty information at time of purchase. Warranties are for residential use only, some exclusions may apply.

## Our dealers will put you in your comfort zone.

Your independent American Standard Heating & Air Conditioning dealer is a highly trained professional with years of experience who will work with you every step of the way in choosing the system that's right for you – from walking you through the entire purchasing process to conducting an in-depth analysis of your home and comfort needs. Based on that information, your dealer will recommend a system that works best for your home. After all, the more efficient the system, the more comfortable you'll be.

Reference Copy  
READ ONLY

### More than 100 years of feeling right at home.

When we made our first radiators in the 1880s, indoor heating was an innovation in and of itself. Since then, we've led the way in creating home comfort systems tailored to meet the needs that are most important to you. Whether your highest priority is comfort, efficiency, cleaner air or all of the above – we can help make your home the most comfortable place you've ever been.

American Standard Heating & Air Conditioning.

The name you know, the brand you trust.

[americanstandardair.com](http://americanstandardair.com)

**American Standard®**  
HEATING & AIR CONDITIONING

American Standard Heating & Air Conditioning  
6200 Troup Highway • Tyler, Texas 75707

© 2009 American Standard Heating & Air Conditioning All rights reserved.

Since American Standard Heating & Air Conditioning has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. Read important energy cost and efficiency information available from your dealer.

