

Freedom[®] 90 Gas Furnaces

Extraordinary comfort with efficiency in mind.

TODAY



Bone chilling
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 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 90 gas furnaces are so powerful and reliable, they help take the sting out of even the harshest winter. In addition, they're designed with durable and advanced features to provide quiet, comforting warmth, day in and day out.

Freedom 90 gas furnaces also cost less to operate due to a very high AFUE (Annual Fuel Utilization Efficiency). Over 90% of the fuel you pay for is converted into heat, and temperature swings are reduced to give you even greater efficiency.

This brochure is a guide to help you choose the right Freedom 90 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 might think twice about going outside at all.



Reliable

Comfortable

Cleaner Air

High Efficiency

Quiet

American Standard[®]
HEATING & AIR CONDITIONING

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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® 90 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 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 constantly adjusts performance for maximum efficiency and ultimate comfort in every room of your home.



Freedom 90 Comfort-R™ Variable-Speed with Integrated AccuClean™ Technology

- Variable-speed blower motor with Comfort-R that increases efficiency and reduces temperature variances.
- Integrated AccuClean technology that removes up to 99% of all airborne particles from filtered air.



Premium: Freedom 90 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 90 High Efficiency Single-Stage

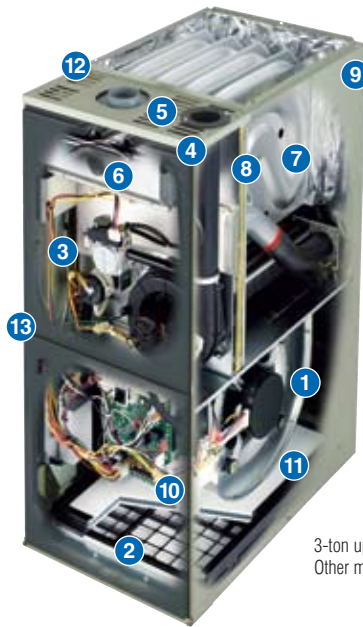
- A high efficiency blower motor means every fuel dollar really counts. Packed with innovative features to deliver consistent, quiet comfort year after year.

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The Freedom® 90 family of furnaces: Everything you need for a warm, cozy and perfectly welcoming home, no matter what the weather.

Ultimate

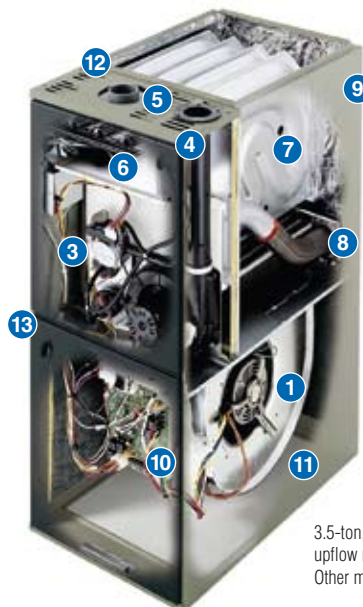
Freedom® 90
Comfort-R™ Variable-Speed with Integrated
AccuClean™ Technology



3-ton upflow model shown.
Other models may vary.

Premium

Freedom® 90 Two-Stage
Freedom® 90 High Efficiency Single-Stage



3.5-ton, two-stage,
upflow model shown.
Other models may vary.

1 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 models)

Operates quietly and efficiently, gently warming and maintaining comfort.

2 Integrated AccuClean™ technology (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.

3 Two-stage gas valve (Ultimate and select Premium models)

Results in greater efficiency by providing just the right amount of fuel for each stage.

4 Variable-speed induced draft venting (Ultimate and select Premium models)

Variable-speed draft blower motor assembly quietly draws combustion gases through the heat exchanger to maximize heating and efficiency.

Single-speed induced draft venting (Select Premium models)

Single-speed draft blower motor assembly quietly and efficiently pulls combustion gases through the heat exchanger for consistent furnace performance.

5 Multi-port in-shot burners

Perfectly shape the flame cone to maximize heating while using less fuel.

6 Adaptive hot surface silicon nitride igniter

Starts burner electronically for safe, efficient operation – eliminating the need for a fuel-burning pilot light.

7 Aluminized steel primary heat exchanger

Crimped, not welded, to prevent cracks from heat stress. Stamped serpentine channel offers the greatest efficiency in less space.

8 Stainless steel secondary heat exchanger

Captures more of the heat you pay for.

9 Heavy steel insulated cabinet

Holds more heat in the furnace to be delivered throughout your home. Helps ensure quiet operation.

10 Self-diagnostic controls

Manage every function with digital accuracy. Includes safety features and a built-in troubleshooting system.

11 Sound-insulated blower motor compartment

Ensures the quietest possible operation.

12 100% fresh air option

Uses 100% outdoor air for combustion to increase equipment life and provide cleaner air.

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.

Freedom[®] 90 gas furnaces deliver dependable warmth – day after day, through the coldest of winters, for years to come.

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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 90, 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 motor 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.[™]

Our Ultimate Freedom 90 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 90 Features	Ultimate Comfort-R [™] Variable-Speed with Integrated AccuClean [™] Technology	Premium Two-Stage	High Efficiency Single-Stage
1 Variable-speed blower motor	•		
Multi-speed blower motor		•	•
2 Integrated AccuClean [™] technology	•		
Compatible with AccuClean AFD models		•	•
3 Two-stage gas valve	•	•	
4 Variable-speed induced draft venting	•	•	
Single-speed induced draft venting			•
5 Multi-port in-shot burners	•	•	•
6 Adaptive hot surface silicon nitride igniter	•	•	•
7 Aluminized steel primary heat exchanger	•	•	•
8 Stainless steel secondary heat exchanger	•	•	•
9 Heavy steel insulated cabinet	•	•	•
10 Self-diagnostic controls	•	•	•
11 Sound-insulated blower motor compartment	•	•	•
12 100% fresh air option	•	•	•
13 Dual door latches (Upflow models)	•	•	•
Lifetime 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*		•	•

*Registered Limited Warranty terms are available when you register within 60 days of installation. You can register online at americanstandardair.com or by phone at 800-554-8005, otherwise American Standard Heating & Air Conditioning's Base Limited Warranty terms will apply. Base Limited Warranty information on specific products can be found on americanstandardair.com.

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



Designed with innovative, sound-reducing features like insulated cabinets and ultra-quiet blower motors, our Freedom 90 variable-speed furnaces ensure that your family will enjoy the most comfort with the least amount of operating noise. And now with revolutionary AccuClean technology built right into the cabinet of our 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® 90 furnaces to bring you and your family the peace of mind that comes from a cleaner, healthier home.

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

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.

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 90 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.

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Extraordinary efficiency and energy savings that will make you feel warm inside.

Four ways to save even more with a Freedom® 90 furnace.

1. Have your system inspected and serviced by an independent American Standard Heating & Air Conditioning dealer prior to the beginning of each heating season.
2. Keep your thermostat at the lowest comfortable temperature setting. You can save about 3 percent of your heating costs for every degree you lower your thermostat during the winter.
3. If you don't have a programmable American Standard Comfort Control, consider getting one. These easy-to-use "smart" thermostats can change your home's temperature up to four times a day.
4. Add insulation to your attic and make sure all your doors and windows are weather-stripped to keep the heat inside your home where it belongs.

Potential energy savings may vary depending on your personal lifestyle, system settings, equipment maintenance, local climate, actual construction and installation of equipment and duct system.

Take comfort in our peace-of-mind warranties.

Your investment in an American Standard Freedom 90 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'll 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 your 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.

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

American Standard®
HEATING & AIR CONDITIONING



American Standard Heating & Air Conditioning
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