

EnviroWise™ Geothermal Systems



ECO-FRIENDLY COMFORT AND THE  
HIGHEST STANDARD OF EFFICIENCY.

*American Standard*®  
HEATING & AIR CONDITIONING

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## HARDWORKING, ULTRA EFFICIENT SYSTEMS THAT CAN CHANGE COMFORT FOREVER.

When you think smart, efficient comfort solutions, you think American Standard Heating & Air Conditioning. In fact, you've trusted us to provide perfectly heated, cooled and cleaned air for over 100 years. Now, we're bringing home new thinking about home comfort with the impressive efficiency of geothermal heating and cooling. And our systems are every bit as comfortable as you'd expect. So relax and enjoy a whole new standard of energy awareness with EnviroWise™ Geothermal Systems from American Standard Heating & Air Conditioning.



 **EnviroWise™**  
Geothermal Systems



When comparing geothermal units, pay close attention to the EER, or Energy Efficiency Ratio. Similar to miles per gallon in a car, EER measures the efficiency with which your system operates. The higher the EER, the less energy you'll use to stay comfortable.



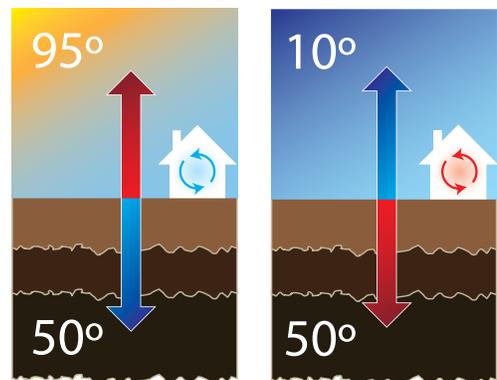
Your home should be as quiet as it is comfortable. So you'll find American Standard geothermal systems can offer some of the lowest sound levels of any system on the market.

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## COMFORT FOR YOUR WHOLE HOME. FROM YOUR PLANET AND FOR YOUR PLANET.

An American Standard EnviroWise™ Geothermal System works on a very simple principle based on renewable energy from the sun. No matter what the weather or season, the temperature within the earth remains constant because almost half of the sun's energy is absorbed by the Earth. By tapping into those even, steady temperatures underground, your American Standard geothermal system can comfortably heat and cool your home with great efficiency. Our geothermal systems are environmentally friendly too; with no carbon dioxide emissions, they reduce the amount of greenhouse gas emissions that contribute to climate change.



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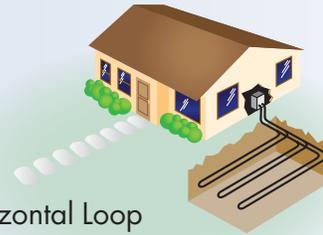
## THERE IS A SYSTEM THAT IS RIGHT FOR YOUR HOME.

American Standard geothermal systems include EnviroWise™ earth coupled heat pumps and a high density polyethylene underground piping system (ground loops) that circulate a fluid between the heat pump and the earth. This fluid transfers heat between your home and the earth, saving you money every day, no matter the season. Your local, independent dealer is the best resource to determine the most effective configuration for your home.



### Vertical Loop

When space is limited, heat transfer tubes are mounted deep down into the earth 200 feet or more.



### Horizontal Loop

When plenty of space is available, heat transfer tubes are installed about 6 to 15 feet below the surface rather than vertically.



### Open Loop

Existing groundwater pumped from wells is used as the heat transfer fluid and is then returned to the ground.



### Pond Loop

A nearby lake or pond is used, instead of the earth, to absorb or gather heat as a heat source or heat sink to transfer heat. Piping is usually used to transfer the fluid to your EnviroWise™ heat pump.

According to the EPA, a geothermal system is one of the most efficient ways to heat and cool your home. When you consider that your home comfort system accounts for a significant amount of your overall energy costs, an American Standard geothermal system can provide substantial savings over the long run. In fact, an American Standard EnviroWise™ Geothermal System is so efficient, it can return up to \$4 of heat for every \$1 spent on electricity.

Special financing available.

Ask your installing dealer for details.

# READ ONLY

Inside your American Standard EnviroWise™ Geothermal System, you'll find tough, dependable components like vibration-dampened scroll Duration™ compressors and specially coated air coils. Everything is built to last, because comfort is nothing without peace of mind.

**1 Duration™ Compressor**

State-of-the-art technology provides world class efficiency and reliability. Specially designed vibration damping mounts deliver near silent operation.

**2 Variable-Speed Blower**

Operates quietly and efficiently to deliver just the right amount of air to keep your home at the perfect temperature.

**3 Coated Coil**

A large transfer area enhances operating efficiency and humidity control. A special epoxy electrocoating wards off corrosion and enhances long-term reliability.

**4 Controls**

Micro-processor technology combined with on-board diagnostics ensures reliability and long-lasting comfort.

**5 Hot Water Option**

Uses excess system capacity to help heat the water you need for bathing and laundry.

**6 Drain Pan**

Made of tough, durable polymer to ward off corrosion and bacterial growth. Integrated electronic overflow protection keeps system components safe.

**7 Cabinet**

Fully insulated to reduce noise levels. Foil-backed insulation is easy to clean, while the durable powder painted surface stays attractive for years.



Platinum Packaged System

Features and components may vary by model and are shown for illustration purposes only.



**For those who want an even higher level of comfort and efficiency.**

The EnviroWise™ Platinum Variable Speed Geothermal Heat Pump offers the ultimate in comfort and performance and the highest available efficiency on the market. With an EER of up to 40 and a COP of up to 5, this system is close to 30% more efficient than two-stage geothermal heat pumps.

Incorporating the latest technologies in variable-speed compressors, motors, and loop pumps, the Platinum also features an advanced control system that includes energy monitoring, full diagnostic capability, and a dedicated communicating color touchscreen control. Our independent dealers are your best resource for deciding which geothermal system is right for your home.



An American Standard Heating & Air Conditioning geothermal system is a smart investment in both the long and short term. Not only will you enjoy consistent energy savings every day of the year, you may also qualify for a tax credit\* of up to 30% of the cost of installing your system through 2016.

\*Tax credit is subject to IRS regulations. Consult a tax professional for advice on tax preparation.

## Packaged Systems.

These systems circulate fluid through the earth and through a coil that absorbs or dissipates heat depending on the season.

### Platinum Variable Speed (TVGS)

Utilizing a true variable-capacity compressor and a variable-speed blower with a fully-communicating control package, this system provides our highest level of comfort, efficiency and ultimate performance with an EER of up to 40 and a COP of up to 5.

### Gold Water to Air (A2GC)

Energy savings (up to 22 EER) and environmentally friendly comfort meet Energy Star™ performance requirements. This mid-efficiency two-stage utilizes a new cabinet design, all aluminum air coil, and 5-speed ECM motor, and is our most affordable and compact package system. Features like a Duration™ compressor, optional hot water heating, and on-board diagnostics make this a sound investment.

### Platinum 2-Stage (A2GX/A1GX)

This packaged geothermal solution from American Standard offers up to 32.1 EER efficiency and is available in single and two-stage. A variable-speed blower motor provides up to 12 airflow selections for even, efficient comfort. Optional hot water heating is available.

### Platinum Hybrid (A2GY)

With up to 27.3 EER and single-stage heating and cooling, you'll enjoy constant comfort and efficiency from a combination of forced air heating, forced air cooling, radiant heat and a dedicated hot water heater. Variable speed airflow offers 12 different settings, and optional hot water heating is available.



## Split Systems.

These systems use a ground loop connected to a loop of refrigerant to transfer heat, using an air handler or furnace to circulate air.

### Platinum Indoor (A2GN)

This two-stage system offers up to 33.1 EER, and works in conjunction with an air handler or furnace for enhanced indoor comfort. The small footprint saves space, and the indoor product can be located up to 60 feet from the air handler. Optional hot water heating is available.

### Platinum Outdoor (A2GE)

Similar to the Platinum Indoor, this system offers the comfort of two-stage heating and cooling and works in conjunction with an indoor air handler or furnace to provide comfortable temperatures from two different sources. In this application all geothermal components of the system reside in a weatherized cabinet outside your home, minimizing the space requirements inside.

### Platinum Indoor Air Handler (TAMG)

The unique cabinet design of our Platinum Air Handler allows less moisture and fewer dust particles to be drawn in from garages, attics or crawl spaces. This double-wall cabinet design also helps prevent energy loss and virtually eliminates condensation. Select models have been specifically engineered to match with our EnviroWise geothermal heat pumps.



## Water Heating and Cooling Systems.

These systems circulate fluid through the earth, transferring heat to and from another fluid loop built into your home. That means radiant heating and cooling without fans or duct work. They are ideal for radiant floor heating applications and can be used with select models of our Platinum Air Handler with water coil to deliver heated and cooled air through a ducted air system.

### Platinum Water to Water (A1GW)

Offers up to 23.4 EER and up to 15 tons of capacity with the flexibility of two-stage radiant heating and cooling.

### Platinum Water to Water (A2GW)

Offers up to 24.5 EER and single-stage heating and cooling. Radiant heating and cooling maintain comfortable temperatures throughout your home, while providing hot water for daily use.



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## Trust your EnviroWise™ Geothermal System to an attractive and dependable American Standard control.\*

### Platinum Series Comfort Controls

American Standard's top of the line comfort control, the AccuLink™ Platinum 950, continues to push the limits of control, integration and comfort. Designed to accentuate your life with smart features like live weather radar, weather alerts, customizable backgrounds and the ability to display digital photos. All on a bright, seven-inch high definition color touchscreen.



### Gold Series Comfort Controls

With a bright, backlit display and interactive touchscreen, controlling your comfort is simple and intuitive. The Gold 824 Control automatically switches between heating and cooling, and provides 7-day programmable schedules to manage your energy use. Humidity control enhances comfort.



### Silver Series Comfort Controls

A non-programmable option that features an illuminated digital display and soft keys, outdoor temperature sensor, automatic changeover between heating and cooling and a filter change reminder for forced-air systems.



\*Not applicable to the Platinum Packaged System which requires a dedicated control included with the system.



### Save on hot water costs as well.

Most Platinum systems can be configured to use excess capacity to heat the water you need for everything from showers to laundry and dishes. So you'll not only enjoy more efficient heating and cooling for your home, you'll also save energy on the hot water you use every day.



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

Your American Standard Heating & Air Conditioning Geothermal System is about comfort and satisfaction. So is the limited warranty supporting it. American Standard EnviroWise™ Platinum Series Geothermal Heat Pumps include 10 years of parts protection and 5 years labor allowance.\*\* See your independent American Standard Heating & Air Conditioning dealer for details.

\*\*Labor subject to fixed rates set by manufacturer.

## Designed for comfort. Built to last.

For more than a century, families have trusted American Standard Heating & Air Conditioning to keep their homes comfortable. Today, our home comfort systems continue to push the boundaries of efficiency and performance, while still delivering on our proud history of quality, durability and substantial value. Welcome your family home to a higher standard of comfort. From American Standard Heating & Air Conditioning.

## Run your home from wherever life takes you.

Nexia™ Home Intelligence allows you to manage your home remotely using most web-enabled mobile devices.\* With just the touch of a button, you can unlock a door or turn on lights for security, or monitor and adjust your heating and cooling from a distance to save energy.



Simply put, Nexia™ Home Intelligence gives you and your family all the promises of home automation in the most simple and accessible way. All so you can connect with your home, even when you're not at home. Ask your American Standard Heating & Air Conditioning dealer for details.

\*Nexia Remote Climate Access included with the purchase of an AccuLink™ Control. Live video viewing included with the purchase of a Schlage® camera. Other features may require a Nexia subscription fee.



## 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.

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

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

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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.

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