

# PREMIER<sup>®</sup>

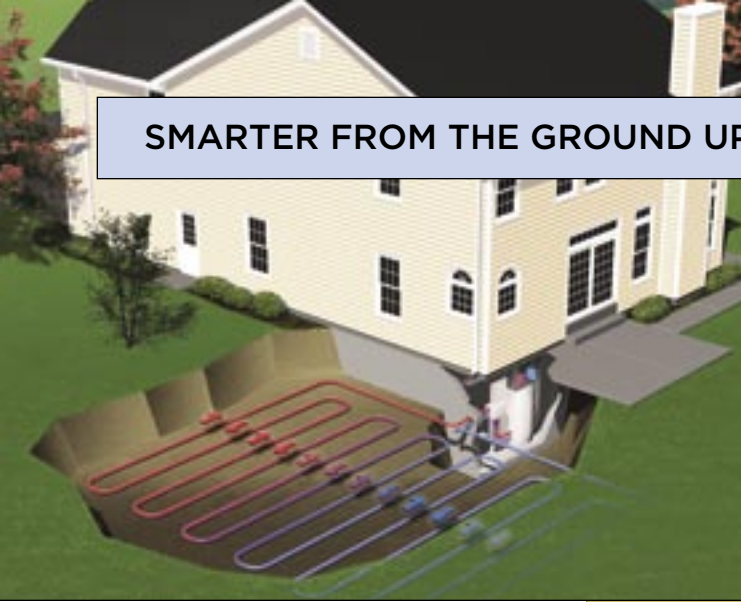
GEOTHERMAL COMFORT SYSTEM  
FORCED AIR HEATING  
& COOLING UNITS



**WaterFurnace<sup>®</sup>**  
Smarter from the Ground Up<sup>™</sup>



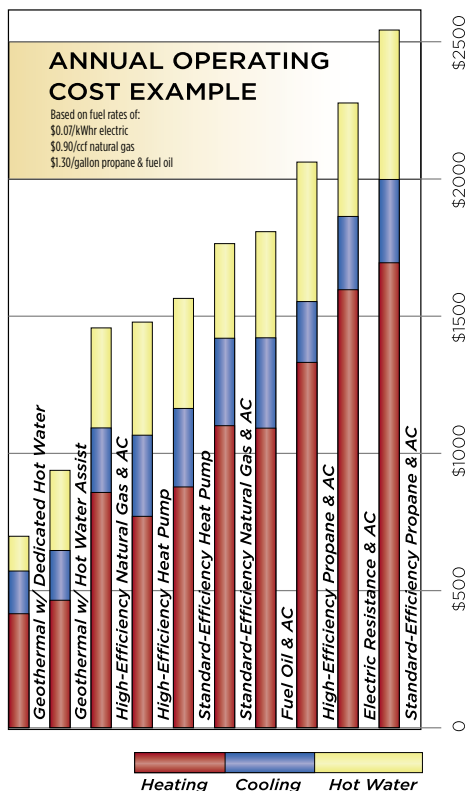
## SMARTER FROM THE GROUND UP



The WaterFurnace Premier Series changed the standard for innovation and efficiency throughout the industry when the company introduced the product line more than a decade ago. Since then, many manufacturers have attempted to duplicate its performance, quality, reliability and quiet operation. Yet with continuous improvements, updates and upgrades through the years, WaterFurnace Premier units have maintained a leadership position in the industry. When you consider the benefits of Premier geothermal systems - you'll find it's a smarter choice. That's why we call it "Smarter from the Ground Up".

### COMPARE THE PERFORMANCE

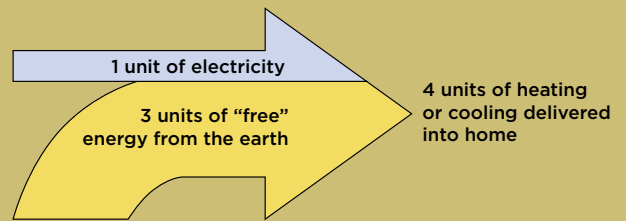
WaterFurnace geothermal systems can dramatically reduce your annual costs for heating, cooling and hot water— by as much as 60 percent per year. Smart homeowners who purchase WaterFurnace Premier units will experience significant energy savings without sacrificing comfort. Ordinary heating and cooling systems operate at a fraction of the efficiency of geothermal systems. And with skyrocketing costs of natural gas, propane and fuel oil, future savings using geothermal technology could be even greater.



### GEOHERMAL BENEFITS

#### ENERGY EFFICIENT:

WaterFurnace systems are rated number one in energy efficiency because they can deliver an astounding four units of energy for every unit of electrical energy used.



Compare that to even the best ordinary system that delivers less than one unit of energy for every unit it consumes. That translates into an efficiency rating of 400 percent, compared to the most efficient gas furnace, which rates nearly 94 percent.

#### COST EFFECTIVE:

Because of the extraordinary efficiency of a WaterFurnace system, any added investment related to installing a geothermal unit is usually more than offset by your energy savings. In new homes, most homeowners will experience an immediate positive return on their investment when the system cost is added to the mortgage. In replacement installations, homeowners find that any added investment over the cost of an ordinary system is generally recovered in energy savings within a few years.

#### COMFORTABLE:

Capturing the relatively stable temperature of the Earth to heat and cool your home, WaterFurnace systems provide consistent, comfortable heating and cooling. You can even regulate temperatures in different areas of your home by adding the IntelliZone system.

#### RELIABLE:

The WaterFurnace reputation for reliability has been earned by using only the highest quality components, design, and workmanship. Computer run-testing after assembly ensures that your unit performs flawlessly at start-up. And in the unlikely event of a malfunction, WaterFurnace units are backed by the best warranties in the industry. Like your refrigerator, your geothermal unit will provide many years of worry free operation.

#### QUIET:

WaterFurnace systems don't require noisy outdoor units that can disturb your peaceful surroundings or create unsightly additions to your home's appearance.

#### SAFE:

Because natural gas, propane or oil is not required to operate a WaterFurnace unit, there's no combustion, flames or fumes and no chance of carbon-monoxide poisoning.

#### FLEXIBLE:

One compact WaterFurnace unit provides heating, central air conditioning and supplemental domestic hot water. A variety of configurations and sizes are available for a wide range of home applications, including newly constructed and existing homes. No matter what climate you live in, your WaterFurnace system will deliver.

#### CLEAN:

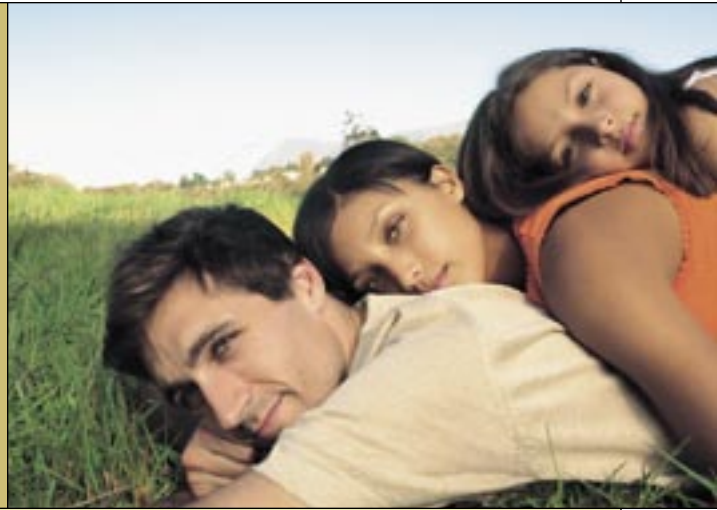
High-efficiency air cleaners used with WaterFurnace systems keep your indoor air quality clean, removing dust and pollen so you can breathe easier.

#### ENVIRONMENTALLY FRIENDLY:

The ground absorbs about 47 percent of the sun's energy that reaches the Earth. WaterFurnace systems harness that free, renewable energy and provide an environmentally friendly way to heat and cool your home. Installing a WaterFurnace system is the environmental equivalent of planting 750 trees or removing two cars from the road.

## PREMIER SERIES BENEFITS

With more than a decade of refinements, WaterFurnace Premier Series units have been providing exceptional comfort, reliability and many years of energy savings to system owners. Each component used in construction is required to meet stringent specifications. Attention to detail doesn't end with component parts. Our manufacturing process includes expert assembly by trained technicians and a complete computerized run-test performed on every unit. And backed by the industry's best warranties, the WaterFurnace Premier is an excellent choice for a system that will provide your family with many years of energy savings and comfort.



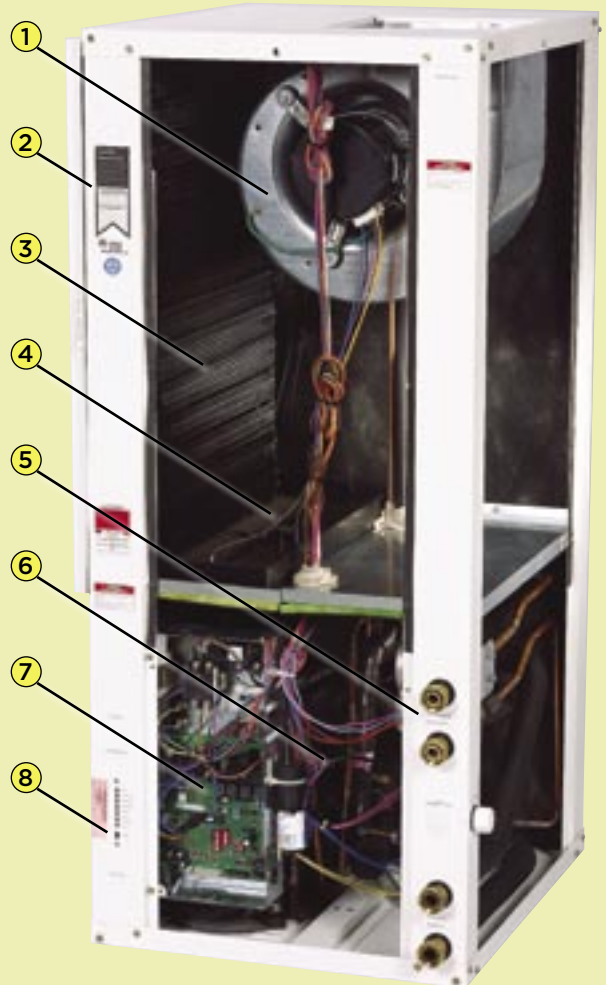
## PREMIER SERIES DESIGN:

WaterFurnace Premier Series products are designed to provide you with exceptional performance.

- ① **BLOWER MOTOR:** A variable speed ECM blower motor with up to 12 air flow selections allows the unit to provide enhanced comfort, quiet operation and energy savings. Single-speed operation PSC motors are also available.
- ② **CABINET:** The cabinet is made of heavy-gauge sheet metal finished with durable powder coat paint for long-lasting beauty and protection. Fully insulated for quiet operation, it's available in vertical and horizontal configurations.
- ③ **COATED AIR COIL:** The coated air coil resists corrosion and increases equipment life. Its large size improves efficiency and dehumidification during cooling.
- ④ **DRAIN PAN:** Electronic overflow protection is included to eliminate the possibility of condensate flooding. Constructed of plastic, the drain pan is also corrosion-proof.
- ⑤ **HOT WATER ASSIST:** During heating and cooling, the Premier preheats your water and delivers it to your water heater. The longer the unit operates, the greater the amount of hot water generated. In the heating mode the hot water is generated at the efficiency of the unit. In cooling, waste heat is recovered and hot water is free!
- ⑥ **COMPRESSOR:** Quiet, efficient and very reliable, Scroll compressors are used in most sizes to increase comfort and energy savings.
- ⑦ **CONTROLS:** Sophisticated microprocessor control sequences components to provide ultimate performance. On-board diagnostics allow for easy service.
- ⑧ **LED STATUS LIGHTS:** Externally mounted status lights indicate normal operation or display faults and assist the technician in troubleshooting.

**FACTORY QUALITY:** WaterFurnace systems are the result of state-of-the-art research and development. Dozens of quality checks are performed throughout the assembly process, and computer-run testing is done on every unit, ensuring flawless start-up and long-term reliability.

**ARI CERTIFIED/ETL LISTED/ENERGY STAR RATED:** WaterFurnace systems are performance certified by the *Air Conditioning and Refrigeration Institute*, safety listed by ETL and exceed performance standards for the ENERGY STAR rating.



	EER	COP
<b>Premier</b>	14.7 - 18.0	3.3 - 3.8

EER (Cooling Efficiency Rating) COP (Heating Efficiency Rating) Based upon Certified ARI/ISO 13256-1 Ground Loop Performance

## GEOTHERMAL LOOP TYPES

WaterFurnace dealers are trained to determine the best type of earth loop to use in any situation. The type of loop used is based on available land space and installation costs for specific areas.



### VERTICAL LOOP

Vertical loops are used when space is limited. Holes are bored using a drilling rig, and a pair of pipes with special u-bend fittings is inserted into the holes. A typical home requires three to five bores with about a 15-foot separation between the holes.



### HORIZONTAL LOOP

Used where adequate land is available, horizontal loops involve one or more trenches that are dug using a backhoe or chain trencher. Polyethylene pipes are inserted, and the trenches are backfilled. A typical home requires 1/4 to 3/4 of an acre for the trenches.



### POND LOOP

If an adequately sized body of water is close to your home, a pond loop can be installed. A series of closed loops can be coiled and sunk to the bottom. A 1/2-acre, 8-foot-deep pond is usually sufficient for the average home.



### OPEN LOOP

An open loop is used where there is an abundant supply of quality well water. The well must have enough capacity to provide adequate flow for both domestic use and the WaterFurnace unit. Most Premier units require 3-10 GPM during operation.

## ACCESSORIES

WaterFurnace offers several innovative options and accessories to get even more out of your system. These features can increase your system's value, simplify its operation and improve its efficiency.



### INTELLIZONE™

With IntelliZone technology, you can control the temperature setting in up to four zones throughout your home and provide even more comfort. IntelliZone provides precise distribution of conditioned air to each room.



### THERMOSTATS

A variety of digital and programmable thermostats are available to ensure accurate control of your system's operation, maintaining precise comfort levels throughout your home.



### DEDICATED WATER HEATING

For applications with large demands for hot water, a dedicated unit can be added to your Premier Series system to provide 100 percent of the domestic hot water requirements. These units operate at three to four times the efficiency of an ordinary water heater.



### AIR CLEANER

Dynamic electronic air cleaners work hard to remove harmful airborne pollutants, such as smoke, odors, bacteria, allergens, molds and pollen. It fits conveniently in the unit's filter rack for easy access.

## WATERFURNACE— THE SMART DECISION

WaterFurnace is dedicated to providing you with safe, reliable and energy-efficient heating and cooling systems that save you money while helping protect our environment. Our engineers and technicians work to create and build quality geothermal products that are extensively tested to ensure the highest quality. An industry leader and an innovator in geothermal technology—WaterFurnace. **Smarter from the Ground Up.**



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[waterfurnace.com](http://waterfurnace.com) | (800) GEO-SAVE

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