

All The *Comforts* of Home



Because it burns no fossil fuels, **geothermal heating and cooling** is the most cost-effective, energy efficient and environmentally friendly way to condition your home.* And with its **state-of-the-art products**, WaterFurnace is North America's leading manufacturer of residential geothermal systems. With a WaterFurnace geothermal system, you can make your home **more comfortable** than it's ever been – no matter the weather; save up to 60% on your monthly utility bills; **protect the environment** and greatly **reduce your energy usage**.

*Source: United States Environmental Protection Agency.



Left to right: ES Split, Synergy3, EW Hydronic Heat Pump, E Series Vertical, E Series Horizontal
Inset above: ES Split with optional "Rock" cover

E Series®

The E Series sets the industry standard for performance, efficiency and quality with extensive testing, continuous development and technological advances. Our quality is backed by the best warranty in the industry, providing years of Worry FreeSM reliability and safe, clean, quiet energy savings.

E Series has several options for new construction or retro-fit, large or small homes. E Series models use the environmentally safe, non-ozone depleting R-410A refrigerant. This unique blend is the "refrigerant of the future." E units are available with three compressor options: Bristol single-speed reciprocating (three sizes, 2 to 3 tons); Copeland Scroll (four sizes, 3-1/2 to 6 tons); and Bristol Twin Single dual capacity (four sizes, 3 to 6 tons).

- Soft-start variable speed ECM blower motors provide the right amount of airflow during sequenced operation.
- Heavy gauge metal cabinet construction with durable poly paint for long-lasting protection.
- Microprocessor controls sequence components for quiet start-up and maximum efficiency while on-board diagnostics provide advanced service information.
- E-coated air coils add durability and longer life.
- EER to 25.1 and COP to 4.7.

EW-Hydronic Heat Pump

Designed for residential hydronic systems, the EW Series Hydronic Heat Pump system has the industry's highest efficiencies in heating and cooling modes. Advanced systems for precise comfort control and a new, compact cabinet make it ideal for the most demanding installa-

tions, with utility bills significantly lower than with ordinary systems. Combines the comfort of a hydronic system with the reliability and low operating costs of a WaterFurnace geothermal heat pump.

- Hydronics is the science of heating and cooling with a liquid — and heating with hot water is extremely versatile and comfortable.
- EW Series can provide radiant floor heating, radiant wall or ceiling heating, domestic hot water generation, baseboard radiation, pool and spa heating and snowmelt.
- Available with high efficiency Bristol twin single reciprocating or Copeland Scroll compressors.

ES Split

The high-performance ES Split system combines comfort, efficiency and affordability. Because the unit requires little space, it can be placed in a remote location from the air handler. It's so durable, it can also be located outside the home. Whether it's used to replace an existing heat pump system or combined with a gas or propane furnace, the ES will provide years of energy savings and reliable comfort.



- Efficient Bristol Dual Capacity reciprocating compressor (3 to 6 tons).
- Bristol single-speed reciprocating compressor (2 and 2 1/2 tons).
- Heavy gauge metal cabinet with durable poly paint for long-lasting protection for either indoor or outdoor installations.
- Optional decorative rock cover available in five colors.
- EER to 23.7 and COP to 4.5.

Synergy3[®]

Superior comfort and performance are the hallmarks of the Synergy3 system. Integrating the comfort of a radiant floor heating system with the advantages of geothermal technology distinguishes the Synergy3 from ordinary furnaces or boilers. The unit provides forced air heating and cooling to dusted zones, while also providing hot water to radiant floor zones. It's like a boiler, furnace and air conditioner all in one, working synergistically to provide the ultimate in home comfort.

- High efficiency Copeland Scroll compressors.
- Soft-start variable speed ECM blower motors provide the right amount of air flow during sequenced operation.
- Heavy gauge metal cabinet construction with durable poly paint for long-lasting protection.
- Microprocessor controls sequences operation and functionality.
- Available in vertical configurations in 4-, 5- and 6- ton sizes.
- EER to 16.0 and COP to 3.4.

Premier Series

Similar to our E Series line, except with R-22 refrigerant, our Premier Series will provide energy savings years of outstanding comfort, reliability and energy savings. Premier units offer several options to for any application – whether it's new construction or retrofit.

- High efficiency Copeland Scroll compressors.
- Choice of PS or soft-start variable speed ECM blower motors for the right amount of airflow during sequenced operation.
- EER to 18.9 and COP to 3.8

Indoor Air Quality



Because a WaterFurnace geothermal system burns no fossil fuels, there is no flame, and no danger of carbon monoxide. Only clean, comfortable and safe conditioning of indoor air – winter and summer. You can enhance this air quality with top-of-the-line accessories.

Dynamic Air Cleaners keep the air in your home fresher and safer, with fewer germs and odors by installing electronic air cleaners – available for all WaterFurnace units.

- Removes harmful airborne pollutants such as smoke, odors, bacteria, allergen, molds and pollen.
- Improves air quality for allergy and asthma sufferers.
- Increases the value and marketability of your home.

Desert Spring Power Humidifier can dramatically improve your comfort and lower your utility bills even more.

- Raises the moisture level of indoor air – the relative humidity – and decreases the rate of evaporation, allowing you to feel comfortable at lower temperatures during heating season, saving on overall energy use.
- Optimum humidity can help ease skin allergies and respiratory infections.
- Protects your home's woodwork, wood floors and furniture.

Cleaner, safer air with comfortable humidity levels: Just a few of the many benefits of WaterFurnace geothermal heating and cooling.

Why WaterFurnace

Lower operating costs: Operates more efficiently than ordinary heating and air conditioning systems, saving up to 60% in most cases.

Safe and clean: No flame, no flue, no odors, and no danger of fire or carbon monoxide. High efficiency air cleaners remove dust and pollen to improve indoor air quality.

Quiet operation: A super efficient compressor and soft-start, variable-speed fan make the E Series so quiet that many people find themselves checking to make sure the system is actually on.

Comfortable: Provides precise distribution of warm air in winter. Gone are the uneven temperatures experienced with ordinary furnaces. In summer you get central air conditioning with better dehumidification.

Flexible: Heating, central air conditioning and domestic hot water – three systems from the same compact unit.

Environmentally friendly: The system emits no carbon dioxide, carbon monoxide or other greenhouse gasses which are considered to be major contributors to environmental air pollution.

Dependable: Microprocessor controls and state-of-the-art components mean smooth operation and years of virtually maintenance-free service.





Accessories

WaterFurnace accessories increase your system's value, ease of use and efficiency.

IntelliZone™ – Precisely control the comfort level in every room of the house with the energy-saving IntelliZone zoning system. By conditioning only specified areas, your geothermal system operates more efficiently.

Environol™ – Environmentally safe antifreeze provides decades of worry-free and safe earth loop operation. In the unlikely event of a system leak,

Environol is completely safe and will not cause any environmental problems.

Flow Center – Factory-assembled Flow Centers provide reliable flow rates through the unit and earth loop.

Thermostats – Digital and programmable thermostats accurately control system operation to maintain precise comfort levels throughout the home.

Earth Loops – At the Heart of It All

The earth loop transfers heat to and from the ground—eliminating the need for fossil fuels. It's the heart of a geothermal system, and biggest advantage over ordinary technologies.

Earth loops come in two basic types. Closed loops, made of durable, high-density polyethylene pipe, are buried in the earth or submerged in a lake or pond. They transfer heat by circulating a solution of water and environmentally safe antifreeze. Open loops use ground water pumped from a well as a heat source. Which type to use depends on the terrain, the cost of trenching or drilling, the availability of quality ground water and the availability of land. Your independent WaterFurnace dealer will help you make the best choice.

Horizontal Loops are used where adequate land is available. One or more trenches are dug using a backhoe or chain trencher. Polyethylene pipes are inserted and the trenches are backfilled.

Vertical Loops are installed where space is limited. Holes are bored using a drilling rig, the pipe is inserted, and the holes are filled. The pipes are connected horizontally a few feet below the surface.



Pond Loops can be installed if an adequately sized body of water is close to the home. A series of coils are placed on the bottom, connected by a header with supply and return pipes leading to the home.

Open Loops are 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.