



Versatec

GEOTHERMAL COMFORT SYSTEM



WaterFurnace
Smarter from the Ground Up™



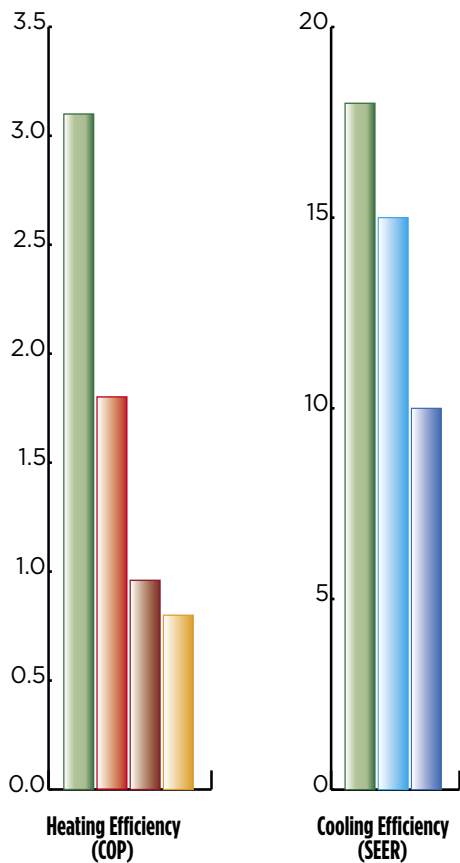
SMARTER FROM THE GROUND UP



The Versatec line of WaterFurnace products has been designed to provide significant energy savings on heating and cooling costs along with exceptional flexibility for installation in a wide variety of applications. The smart design of the Versatec product line makes it suitable for both geothermal closed loop and well-water installations in single or multi-family housing. Regardless of the application, Versatec units deliver comfort, savings and performance at a modest price.

COMPARE THE PERFORMANCE

Versatec units can dramatically reduce your annual costs for heating, cooling and hot water—by as much as 60% per year—without sacrificing comfort. Ordinary furnaces and air conditioners just don't measure up. And with skyrocketing costs of fossil fuels, your investment in WaterFurnace technology is the smart choice.

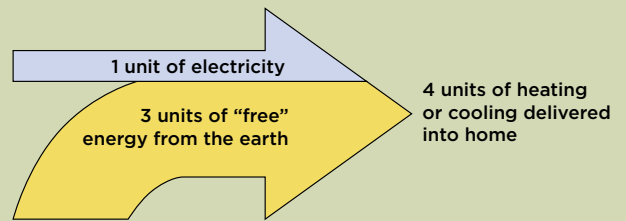


- WaterFurnace Versatec
- Air Source Heat Pump
- High Efficiency Gas or Propane Furnace
- Standard Efficiency Gas or Propane Furnace
- High Efficiency AC or Heat Pump
- Standard Efficiency AC or Heat Pump

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 only 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:

WaterFurnace systems provide consistent, comfortable heating and cooling by capturing the stable temperature of the Earth. And with the optional IntelliZone, regulate independent temperatures in up to four different areas of your home.

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. 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.

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:

Installing a geothermal comfort system is the environmental equivalent of planting 750 trees or removing two cars from the road. In addition, electric utilities have found that the wide-spread use of geothermal comfort systems (like the WaterFurnace Versatec), reduces the need to build more power generating plants, which helps keep our energy costs in check and conserves our precious resources.

THE VERSATEC SERIES BENEFITS

EXCEPTIONAL RELIABILITY

Versatec units incorporate robust and reliable components that will ensure long equipment life with minimal maintenance. This exceptional reliability is also the result of multiple quality control checks throughout the entire assembly process. And every unit is computer run-tested in all modes of operation so you can be assured that your Versatec unit will perform flawlessly from the first start-up and thereafter for many years to come.

EXCEPTIONAL FLEXIBILITY

There's a Versatec unit for virtually any size of residential application. Vertical models are available in 10 sizes and are multi-positional; horizontal models are available in 11 sizes.



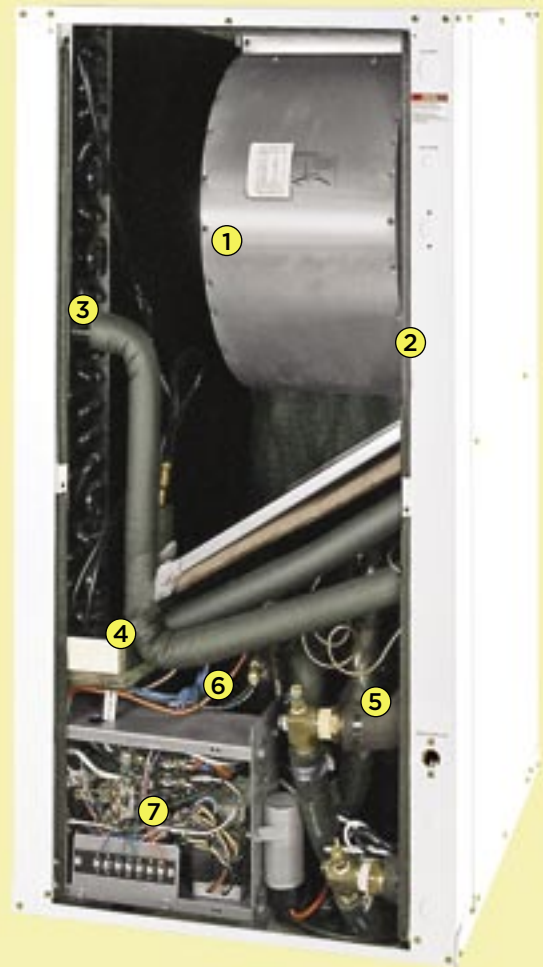
THE VERSATEC SERIES DESIGN:

WaterFurnace Versatec units are performance-certified by the Air Conditioning and Refrigeration Institute, and are safety listed by ETL.

- ① **BLOWER MOTOR:** The PSC blower motor can be set up to run using one of three speeds. Mounted on rubber grommets to minimize vibration transmission.
- ② **CABINET:** Constructed of environmentally-responsible galvanized steel for maximum corrosion resistance and durability. Fully insulated to minimize sound levels during operation. Epoxy powder coat paint (white) optional on vertical units.
- ③ **COATED AIR COIL:** The coated air coil resists corrosion and increases equipment life.
- ④ **DRAIN PAN:** Constructed of galvanized steel for corrosion resistance.
- ⑤ **HOT WATER ASSIST:** During heating and cooling, hot water can be generated and delivered to the water heater. The longer the unit operates, the greater amount of hot water generated. During cooling, heat removed from the home is diverted to the tank for "free" hot water. (Available only on vertical units.)
- ⑥ **COMPRESSOR:** Quiet, efficient and very reliable reciprocating compressors from top name manufacturers.
- ⑦ **CONTROLS:** Unit controls are mounted in a separate enclosure for protection. Basic electromechanical controls keep service and diagnostics simple. The compressor control module disables compressor in the event of a safety switch being tripped.

FACTORY QUALITY: Versatec units are the result of state-of-the-art research and development. Dozens of quality checks are performed throughout the assembly process. In fact, every unit must successfully pass a rigorous computerized performance test in all modes of operation to ensure that it meets or exceeds a set of stringent standards prior to being packaged for delivery.

ARI CERTIFIED/ETL LISTED: WaterFurnace Versatec units are performance-certified by the Air Conditioning and Refrigeration Institute, and are safety listed by ETL.



	Closed Earth Loop		Well Water (50° F)	
	EER	COP	EER	COP
Versatec Vertical	13.4 - 16.2	3.1 - 3.6	18.4 - 23.3	3.6 - 4.1
Versatec Horizontal	12.1 - 15.3	2.9 - 3.5	13.1 - 22.7	3.3 - 4.2

EER (Cooling Efficiency Rating) COP (Heating Efficiency Rating)

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. Versatec units require 3 - 10 GPM, depending on size.

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 ES 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

Adding an electronic air cleaner to the air handler connected to your Versatec unit will remove harmful airborne pollutants, such as smoke, odors, bacteria, allergens, molds and pollen.

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.**

