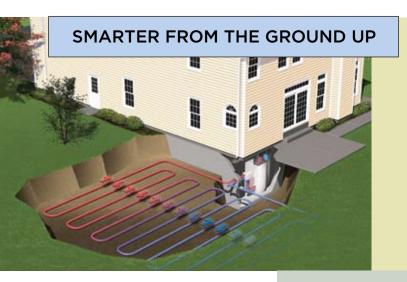
ALL THE COMFORTS OF HOME

WATERFURNACE RESIDENTIAL PRODUCT LINE







Heat & cool your home the smart way with a WaterFurnace geothermal comfort system using the clean, free, renewable energy found just below the earth's surface. WaterFurnace units don't rely on expensive, limited fossil fuels which negatively impact our environment. Thanks to energy efficiency ratings of 300-500%, WaterFurnace systems save many homeowners up to 70% in heating and cooling costs while helping to protect the environment. With outstanding energy efficiency, cost effectiveness, and environmental responsibility, it's easy to see why a WaterFurnace geothermal system is "Smarter from the Ground Up".

Envision Series units deliver an astounding five dollars of energy for every dollar of electrical energy used. **ENERGY EFFICIENT:** WaterFurnace geothermal systems are simply the most efficient units available. They can deliver up to five dollars of energy for every dollar of electrical energy used. That translates into an astounding efficiency rating of 500 percent, compared to the most efficient gas furnace, which rates only 97 percent.



COST EFFECTIVE: Because of the extraordinary efficiency of a WaterFurnace system, any added costs over an ordinary unit are usually more than offset by your monthly energy savings. In new homes, most homeowners experience an immediate positive return on their investment. In replacement installations, costs are usually recouped within just a few years.

ENVIRONMENTALLY FRIENDLY: WaterFurnace systems harness the free, renewable energy in your own backyard 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. Additionally, WaterFurnace systems don't burn fossil fuels or emit harmful greenhouse gases. That's why the Environmental Protection Agency calls it the most environmentally friendly way to condition our homes.

COMFORTABLE: Using the stable temperature of the Earth, WaterFurnace systems provide consistent, comfortable heating and cooling. You can even regulate temperatures in different areas of your home with an optional Intellizone zone control 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. WaterFurnace units are backed by the best warranties in the industry. Your geothermal unit will provide many years of dependable operation.

QUIET: WaterFurnace systems don't require noisy outdoor units that can disturb your peaceful surroundings or clutter your home's outdoor appearance.

SAFE: Because no fossil fuels are required to operate a WaterFurnace unit, there's no combustion, flames or fumes, and no chance of carbon-monoxide poisoning.

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

CLEAN: High-efficiency air cleaners found in WaterFurnace systems improve your indoor air quality by removing dust and pollen so you can breathe easier. For added protection, ask about our AlpinePure line of premium indoor air quality solutions.

As a leader in the industry, WaterFurnace is dedicated to innovation, quality and customer satisfaction. Every unit built is exposed to a wide range of quality control procedures throughout the assembly process. They are subjected to a rigorous battery of computerized run tests to certify that performance meets or exceeds standards for efficiency, safety, and reliable operation. As further affirmation of our quality standards, each unit carries our exclusive Quality Assurance emblem, signed by the final test technician. By choosing WaterFurnace products, you're investing in the ultimate comfort system and peace of mind for years to come.



FORCED AIR/HYDRONIC COMBO UNIT

SYNERGY3D

Overall efficiency, performance & features: **** 23.7 EER / 4.5 COP

With the Synergy3D Series, you'll enjoy incredible energy savings on your heating and cooling costs while providing hot water for radiant floor heat (domestic hot water option also available). The Synergy3D is the geothermal equivalent of a boiler, furnace and air conditioner - all in a single unit. The Synergy3D shares many of the premium features used in our Envision line. All Synergy3D units utilize ozone-safe R-410A refrigerant. Components auto-adjust for optimum performance and provide advanced troubleshooting features through status lights and self-diagnostics. Heating priority may be given to forced air zones or radiant floor heat.











HYDRONIC UNITS

ENVISION NSW 1.5 to 6 tons

Overall efficiency, performance & features: ***1/2 17.5 EER / 3.1 COP

NSW Hydronic Heat Pumps provide super efficient hot water generation for pool/spa heating, radiant floor, snow melt, aquaculture, and process water installations. Its wide range of operating temperatures, compact size, reversible control box and piping allow the NSW series to be used in a variety of applications. The NSW samples entering water temperatures and automatically enables the pumps and compressor for peak performance. Easy to use controls and status lights ensure hassle free operation. NSW units can be selected as heating only or heating/cooling models. Scroll compressors, R-410A refrigerant, and oversized heat exchangers combine to provide users with exceptional energy savings.











ENVISION NDW 8 to 15 ton

Overall efficiency, performance & features: *** 22.5 EER / 3.5 COP

The Envision Series NDW is designed to meet the high-volume water demands of today's larger luxury homes. NDW units provide high capacity heating and cooling performance, but still deliver the features homeowners have come to expect from our Envision line. Two high efficiency, single speed scroll compressors keep operating costs low for pool/spa heating, radiant floor, snow melt, aquaculture and process water installations. An advanced controller comes with each unit to monitor operation and provide an intuitive user interface. Brazed plate heat exchangers provide efficiency and allow for a compact unit. As always, all Envision units use R-410A refrigerant.











PRODUCT SELECTION

Your home's comfort is important to you and your family. You want a comfort system that will provide you with peace of mind and low operating costs for many years.

This brochure highlights our extensive residential product line. We've included descriptions of the products, features and applications along with a side by side comparison. Although all WaterFurnace products are designed and built to the highest standards, each group of products is unique in its own way. Therefore, we've included a 5-star rating system for each group to clearly demonstrate a "Best, Better, Good" rating based on overall efficiency, performance, features and application flexibility.



A WaterFurnace unit is the environmental equivalent of

taking two cars off the road forever

FORCED AIR UNITS

Geothermal systems
have been recognized
by the EPA as the most
environmentally-friendly
heating and cooling
technology available.



ENVISION SERIES

Overall efficiency, performance & features: ****

While other companies *claim* to be the most efficient, **only WaterFurnace Envision products are** *certified* **by AHRI to be the most efficient heating and cooling system on the planet.** Computer controlled components ensure optimum performance and provide advanced troubleshooting features with status lights and self-diagnostics. All units utilize ozonesafe R-410A refrigerant to meet the most stringent EPA requirements. A premium variable speed ECM blower and our highest efficiency scroll compressor is housed in the Envision's appliance-grade metallic cabinet. Coated air coils add durability and longer life. Seven single speed sizes, five dual capacity sizes and a large variety of configurations ensure maximum versatility for your home's needs. *Envision products represent the world's highest efficiency units and the ultimate in performance and reliability.*











Overall efficiency, performance & features: ***1/2 18.0 EER/3.

WaterFurnace Legend Series units benefit from the technology we've refined through four generations of products, and offers it at a great price. The Legend Series represents some of the highest efficiency units available and is a great choice for a years of reliable energy savings and comfort. All units utilize ozone-safe R-410A refrigerant to meet the most stringent EPA requirements. Variable speed ECM blower motors provide precise control and quiet operation. Scroll compressors are used for efficiency and reliability. Status lights and advanced controls maintain peak performance of Legend series units. Optional hot water generation package is available. The Legend series represents the culmination of 25 years of research, engineering and manufacturing experience.













GEOTHERMAL COMEOR

A WaterFurnace unit is the environmental equivalent of

planting an acre of trees

waterfurnace.com

SPLIT UNITS

ENVISION INDOOR SPLIT

Overall efficiency, performance & features: *** 24.0 EER / 4.5 COP

Envision Series Indoor Splits are designed for indoor use where all-in-one systems would be difficult to install, like attics or crawl spaces. When connected to our Envision Air Handler (pictured right) the unit can efficiently heat and cool your entire home. When combined with a fossil fuel furnace, the system automatically selects the most efficient fuel source for your home regardless of outside temperatures. Because there is no outdoor fan like ordinary air conditioners or heat pumps, the unit is "whisper quiet". All Envision units utilize ozone-safe R-410A refrigerant. Easily accessible controls and connections make this unit simple to install in a wide variety of applications. The Envision Series Indoor Split provides the amazing efficiency of geothermal with the versatility of a split.









GEOTHERMAL LOOPS

The ground serves as a giant solar collector, storing heat energy. Just a few feet below the surface, earth temperatures remain relatively constant and moderate all year. A geothermal system uses the earth as a free heat source during heating, and a heat sink when cooling.

Where space is limited, vertical loops are used. Horizontal loops are generally preferred where more space is available. A nearby pond could also be utilized for a geothermal loop. Where well water is plentiful and low in minerals, an open loop system may be ideal. WaterFurnace dealers and loop installers are trained to design the best loop system for a particular home to ensure optimum performance.

ENVISION OUTDOOR SPLIT

Overall efficiency, performance & features: *** 25.0 EER /4.6 COP

Envision Series Outdoor Splits are designed for outdoor use where indoor systems would be difficult to install. For an aesthetic touch, an optional decorative rock cover is available in three colors (brown granite, gray granite, and charcoal basalt). Envision Series Outdoor Splits are engineered to be connected to our Envision Air Handler or a fossil fuel furnace. Like the indoor split, the outdoor unit automatically switches to the most economical heating source for improved energy conservation when used with a fossil fuel furnace. All Envision units utilize ozone-safe R-410A refrigerant. Easily accessible controls and connections make this unit simple to install in a wide variety of applications. The Envision Series Outdoor Split will provide exceptional performance and comfort for many years.

















**** ***1/2 **** **Envision** Synergy3D Legend Ultimate luxury. Premium Forced Air + Radiant "Best" overall. Exceptional comfort and "Better" choice for excellent performance. 3-in-1 system. Forced air heating & cooling unmatched performance. with capability of radiant floor heat. 2 to 6 ton single speed 2 to 6 ton single speed 3 to 6 ton dual capacity (7 sizes) (7 sizes) (4 sizes) 2 to 6 ton dual capacity (5 sizes) 3.8 - 5.1 COP 3.9 - 4.5 COP N/A - Single speed units only Second Stage 16.8 - 30.0 EER 20.2 - 23.7 EER 3.4 - 4.4 COP 3.3 - 3.8 COP 3.5 - 4.0 COP First Stage 17.2 - 22.0 EER 15.2 - 18.5 EER 15.0 - 18.5 EER R-410A R-410A R-410A High-efficiency scroll High-efficiency scroll High-efficiency scroll (single speed & dual capacity) (single speed) (dual capacity) Premium variable speed ECM Variable speed ECM Premium variable speed ECM Optional PSC in single speed units Optional PSC single speed Vertical top flow Vertical top flow Vertical top flow Vertical bottom flow Horizontal end or side All left or right return discharge Horizontal end or side discharge All left or right return All left or right return 3 heat*, 2 cool 3 heat*, 2 cool 3 heat*, 2 cool Microprocessor Microprocessor Microprocessor Fault & status lights Fault & status lights Fault & status lights Onboard diagnostics Onboard diagnostics Onboard diagnostics Fault retry Fault retry Fault retry Yes Yes Yes Optional Optional Optional

Internal mount pump

IntelliZone

Internal mount on vertical

All sizes

FORCED AIR/HYDRONIC COMBO

External mount pump

Yes

All sizes

IntelliZone

Internal mount on vertical

FORCED AIR UNITS

Internal mount pump

Yes

All sizes

IntelliZone

Internal mount on vertical

Notes

Applications

Sizes

Efficiency

Refrigerant

Compressor

Blower

Control

Coated Air Coil

Desuperheater

Auxiliary Heat

Zone Control Option

ENERGY STAR Rated

(Closed earth loop rating points)

Cabinet Configurations

Stages (* with aux.)

AHRI 13256-1 (GLHP) Closed loop

HYDRONIC UNITS		SPLIT UNITS	

Envision NSW	Envision NDW	Envision Indoor Split	Envision Outdoor Split
Hydronic. Add-on unit for hot water applications like radiant floor, spas, pools, fan coils.	Hydronic. Add-on unit for high volume water demands of today's larger luxury homes. Dual compressor operation.	Versatility. Used with remote air handler (shown above) or gas furnace.	Outdoor unit. Used with remote air handler or gas furnace.
1½ to 6 tons single speed (6 sizes)	8 to 12 ton single speed	2 to 6 ton single speed (7 sizes) 2 to 6 ton dual capacity (5 sizes)	2 to 6 ton dual capacity (5 sizes)
N/A - Single speed units only	3.3 - 3.5 COP 18.4 - 22.5 EER	3.4 - 4.4 COP 15.0 - 25.3 EER	3.8 - 4.4 COP 20.0 - 25.3 EER
2.9 - 3.1 COP 14.0 - 17.5 EER	2.7 - 3.1 COP 15.8 - 17.2 EER	3.3 - 4.0 COP 15.1 - 19.9 EER	3.4 - 3.9 COP 15.0 - 17.1 EER
R-410A	R-410A	R-410A	R-410A
High-efficiency scroll (single speed)	Dual high-efficiency scroll (single speed)	High-efficiency scroll (single speed & dual capacity)	High-efficiency scroll (single speed)
None	N/A	Variable speed ECM when mated to Envision NAH air handler.	Variable speed ECM when mated to Envision NAH air handler.
Compact unit	Compact unit with rear or top mounted water connections	Compact cube	Compact outdoor unit
1 heat, 1 cool	2 heat, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool
Microprocessor Mode, status & fault lights Fault retry	Microprocessor Mode, status & fault lights Onboard diagnostics via user interface Fault retry	Microprocessor Fault & status lights Onboard diagnostics Fault retry	Microprocessor Fault & status lights Onboard diagnostics Fault retry
N/A	N/A	Yes, with NAH air handler	Yes, with NAH air handler
Optional 040 to 075 models	N/A	Optional Internal mount pump	Optional External mount indoors
N/A	N/A	Yes, with NAH air handler Dual fuel option	Yes, with NAH air handler Dual fuel option
HydroZone	HydroZone	IntelliZone	IntelliZone
Yes 018, 025, 040, 050 (MIRO) STAR and 060 models	Yes 100 and 120 models	Yes All sizes	Yes All sizes



GEOTANK

The WaterFurnace GeoTank is simply the best way to capture preheated water from your unit. Engineered specifically for your WaterFurnace geothermal system, the GeoTank includes unique features that make installation and operation easy.



INTELLIZONE™

IntelliZone provides you with precise control over your indoor environment. Adjust zones to condition only the rooms that need it, so your WaterFurnace system runs more efficiently, saving money and providing better comfort.



INDOOR AIR PRODUCTS

The WaterFurnace AlpinePure Series is based around three strategies to improve indoor air quality: filter the air, ventilate the air and eliminate the source. WaterFurnace Indoor Air Quality products includes premium air cleaners, purifiers and media filters.

THERMOSTATS



TA21W01

Value electronic thermostat for single stage PSC units

2 Heat, 1 Cool

Non Programmable

Comfort Alert features are not available for this thermostat



TA32W01

Deluxe electronic thermostat for single or dual stage ECM units

3 Heat, 2 Cool

Non

Programmable

Comfort Alert features are not available for this thermostat



TP32W02

Premium touchscreen thermostat for single or dual stage units

3 Heat, 2 Cool

Fully Programmable

Comfort Alert
- Fault Flash
displays system
errors as flashing
lights



TP32U03

Premium "smart" thermostat for single or dual stage units

3 Heat, 2 Cool

Fully Programmable

Comfort Alert
- ComfortTalk
displays system
errors as text

Dual Fuel



TP32W04

Premium "smart" thermostat for single or dual stage units

3 Heat, 2 Cool

Fully Programmable

Comfort Alert
- ComfortTalk
displays system
errors as text

Dual Fuel

Humidity Control



TP32W05

Premium "smart" thermostat for single or dual stage units

3 Heat, 2 Cool

Fully Programmable

Comfort Alert
- ComfortTalk
displays system
errors as text

Dual fuel

4 Wire Installation

For more information and to download literature visit waterfurnace.com













