

# ALL THE COMFORTS OF HOME

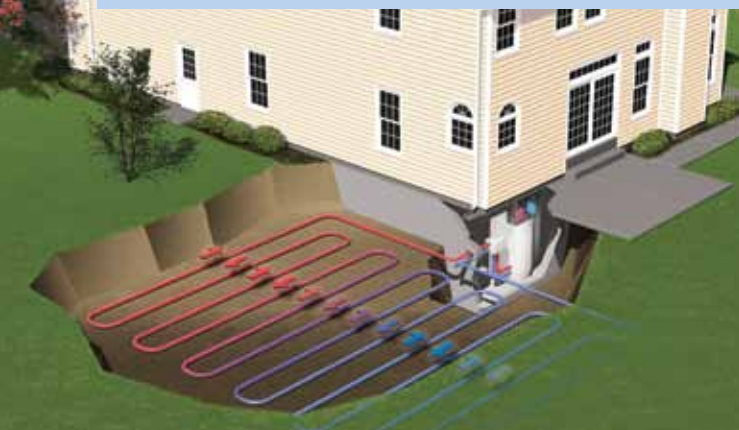
WATERFURNACE RESIDENTIAL PRODUCT LINE



**WaterFurnace**  
Smarter from the Ground Up™



## SMARTER FROM THE GROUND UP

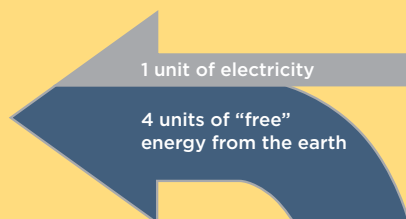


Heat & cool your home the smart way with a WaterFurnace geothermal comfort system using the clean, free, renewable energy found just below the earth's surface. WaterFurnace units don't rely on expensive limited fossil fuels which negatively impact our environment. Thanks to energy efficiency ratings of over 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"*.

**5 Series units deliver an astounding five dollars of energy for every dollar of electrical energy used while 7 Series units deliver even more.**

### **ENERGY EFFICIENT:** *WaterFurnace geothermal systems are simply the most efficient units available.*

They can deliver over five dollars of energy for every dollar of electrical energy used. That translates into an astounding efficiency rating of more than 500 percent, compared to the most efficient gas furnace, which rates only 98 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 and 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 domestic hot water assistance. 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 UNITS

### 7 SERIES 700A11

Overall efficiency, performance & features: ★★★★★ **41.0 EER / 5.3 COP**

The 700A11 signifies groundbreaking innovations on multiple fronts—most notably as the first variable capacity geothermal unit in full production and the only unit to surpass both the 41 EER and 5.3 COP efficiency barriers. Our Aurora communicating controls work in unison with the variable capacity compressor, variable speed pumps and variable speed blower motor to offer a level of comfort you have to experience to believe. Best of all, 7 Series units use the stored energy in your yard to provide savings up to 70% on heating, cooling and hot water.



QUALIFIES  
**30% TAX CREDIT**



### 5 SERIES 500A11

Overall efficiency, performance & features: ★★★★ **30 EER / 4.8 COP**

As the upgrade to our highly successful Envision Series, the 5 Series represents some of our best features and efficiencies yet. The 500A11 provides forced air heating, air conditioning, and even generates a portion of your home's hot water—all from a single unit that offers a level of comfort and savings that's far greater than any ordinary system. Available in many sizes and configurations, the 500A11 provides exceptional performance, versatility, and quiet operation. Most 5 Series products utilize environmentally friendly R-410A refrigerant and the best in system components, including the next generation of WaterFurnace controls—Aurora. Aurora controls provide two-way communication between components for the ultimate in performance and troubleshooting capabilities.



QUALIFIES  
**30% TAX CREDIT**  
(most models)



### LEGEND SERIES

Overall efficiency, performance & features: ★★★½ **18.0 EER / 3.8 COP**

WaterFurnace Legend Series units benefit from technology we've refined through four generations of products and offers a great price point. The Legend Series represents some of the highest efficiency units available and is a great choice for 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.



QUALIFIES  
**30% TAX CREDIT**  
(select models)



### 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.



## Ask about **Easy Financing**

A WaterFurnace unit is the environmental equivalent of  
*taking two cars off the road forever.*

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

### HYDRONIC UNITS

#### 5 SERIES 502W12 7 ton

Overall efficiency, performance & features: ★★★★★ 19.0 EER / 3.5 COP

The 502W12 High Temperature Hydronic Heat Pump is our geothermal solution for boiler replacement. Capable of delivering 150°F leaving hot water, this system is perfect for baseboard radiator systems, underfloor radiant applications, overfloor radiant applications, and fan coils. Typical geothermal hydronic systems are limited to water temperatures around 130°F which can make replacing fossil fuel boilers difficult. This system has been designed specifically to meet these higher temperature requirements and makes upgrading to a WaterFurnace system easier. It utilizes low-pressure environmentally friendly R-134a refrigerant along with high efficiency top-notch components.



**Most Efficient  
2013**  
www.energyguide.gov



**QUALIFIES ✓  
30% TAX CREDIT**



#### ENVISION NSW 1.5 to 6 tons

Overall efficiency, performance & features: ★★★★★ 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, and reversible control box and piping allow the NSW series to be used in a variety of applications. The NSW samples entering water temperature 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.



**AHRI CERTIFIED**  
Ask About Our Certified Products



**QUALIFIES ✓  
30% TAX CREDIT**  
(most models)



#### 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. Braze plate heat exchangers provide efficiency and allow for a compact unit. As always, all Envision units use R-410A refrigerant.



**AHRI CERTIFIED**  
Ask About Our Certified Products



**QUALIFIES ✓  
30% TAX CREDIT**  
(select models)



A WaterFurnace unit is the environmental equivalent of *planting an acre of trees.*

## 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—all in a single unit (domestic hot water option also available). The Synergy3D shares many of the premium features used in our other popular lines including the 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. Efficiency and convenience are key in this all-in-one forced air and hydronic combination unit.



## 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 extremely 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.



(All qualify if installed with our Air handler or A-Coil)



### 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. 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.



(All qualify if installed with our Air handler or A-Coil)



### GEOHERMAL 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.



## FORCED AIR UNITS

## FORCED AIR/HYDRONIC COMBO



★★★★★



★★★★



★★★½



★★★★

		<b>7 Series 700A11</b>	<b>5 Series 500A11</b>	<b>Legend</b>	<b>Synergy3D</b>
<b>Applications</b>		<b>The ultimate in luxury.</b> Variable capacity forced air heating and cooling with hot water assist.	<b>Upscale comfort.</b> Dual or single capacity forced air heating and cooling with hot water assist.	<b>A smart choice.</b> Single capacity forced air heating and cooling with hot water assist.	<b>Premium Forced Air + Radiant</b> 3-in-1 system. Forced air heating & cooling with capability of radiant floor heat.
<b>Sizes</b>		3 to 5 ton variable capacity	1 to 6 ton single speed (9 sizes) 2 to 6 ton dual capacity (5 sizes)	2 to 6 ton single speed (7 sizes)	3 to 6 ton dual capacity (4 sizes)
<b>Efficiency</b> AHRI 13256-1 (GLHP) Closed loop	<b>Part Load</b>	5.1 - 5.3 COP 36.0 - 41.0 EER	4.1 - 4.8 COP 23.4 - 30.0 EER	N/A - Single speed/full load units only	3.9 - 4.5 COP 20.2 - 23.7 EER
	<b>Full Load</b>	3.5 - 3.6 COP 19.4 - 22.0 EER	3.7 - 4.3 COP 17.0 - 21.0 EER	3.3 - 3.8 COP 15.2 - 18.5 EER	3.5 - 4.0 COP 15.0 - 18.5 EER
<b>Refrigerant</b>		R-410A	R-410A	R-410A	R-410A
<b>Compressor</b>		High-efficiency (variable capacity)	High-efficiency scroll (single speed & dual capacity)	High-efficiency scroll (single speed)	High-efficiency scroll (dual capacity)
<b>Blower</b>		Variable speed ECM Oversized ECM (036 model only)	Premium variable speed ECM or 5-Speed ECM, Optional PSC in single speed units	PSC, Oversized PSC, 5-Speed ECM	Premium variable speed ECM
<b>Cabinet Configurations</b>		Vertical top, bottom, or rear flow Horizontal end or side discharge All left or right return	Vertical top, bottom, or rear flow Horizontal end or side discharge All left or right return	Vertical top flow Horizontal end or side discharge All left or right return	Vertical top flow All left or right return
<b>Stages (* with aux.)</b>		Variable	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool
<b>Control</b>		Aurora	Aurora	Microprocessor Fault & status lights Onboard diagnostics Fault retry	Microprocessor Fault & status lights Onboard diagnostics Fault retry
<b>Coated Air Coil</b>		Yes	Yes	Yes	Yes
<b>Desuperheater</b>		Optional Internal mount pump	Optional Internal mount pump	Optional Internal mount pump	Optional External mount pump
<b>Auxiliary Heat</b>		Optional Internal mount on vertical	Optional Internal mount on vertical	Optional Internal mount on vertical	Optional Internal mount on vertical
<b>Zone Control Option</b>		IntelliZone2 (up to 6 zones)	IntelliZone2 (up to 4 zones)	IntelliZone (up to 2 zones)	IntelliZone (up to 4 zones)
<b>ENERGY STAR Rated (Closed earth loop rating points)</b>		Yes All sizes	Yes All ECM models and most PSC models	Yes All X13 models and most PSC models	Yes All sizes



HYDRONIC UNITS			SPLIT UNITS	
				
★★★★			★★★★	
<b>5 Series 502W12</b>	<b>Envision NSW</b>	<b>Envision NDW</b>	<b>Envision Indoor Split</b>	<b>Envision Outdoor Split</b>
<b>High temperature hydronic.</b> For boiler replacement and hot water applications.	<b>Hydronic.</b> Add-on unit for hot water applications like radiant floor, spas, pools, fan coils.	<b>Hydronic.</b> Add-on unit for high volume water demands of today's larger luxury homes. Dual compressor operation.	<b>Versatility.</b> Used with remote air handler (shown above) or gas furnace.	<b>Outdoor unit.</b> Used with remote air handler or gas furnace.
7 ton dual compressor	1½ to 6 tons single speed (6 sizes)	8 to 15 tons dual compressor (4 sizes)	2 to 6 ton single speed (7 sizes) 2 to 6 ton dual capacity (5 sizes)	2 to 6 ton dual capacity (5 sizes)
3.5 COP 19.0 EER	N/A - Single speed/full load units only	3.3 - 3.5 COP 18.4 - 22.0 EER	3.4 - 4.4 COP 15.0 - 25.3 EER	3.8 - 4.4 COP 20.0 - 25.3 EER
3.1 COP 16.0 EER	2.9 - 3.1 COP 14.0 - 17.5 EER	2.7 - 3.0 COP 15.8 - 16.8 EER	3.3 - 4.0 COP 15.1 - 19.9 EER	3.4 - 3.9 COP 15.0 - 17.1 EER
R-134A	R-410A	R-410A	R-410A	R-410A
Dual high-efficiency scroll (single speed)	High-efficiency scroll (single speed)	Dual high-efficiency scroll (single speed)	High-efficiency scroll (single speed & dual capacity)	High-efficiency scroll (single speed)
None	None	None	Variable speed ECM when mated to Envision NAH air handler.	Variable speed ECM when mated to Envision NAH air handler.
Compact unit with rear or top mounted water connections Controls are field convertible from front to back	Compact unit	Compact unit with rear or top mounted water connections Controls are field convertible from front to back	Compact cube	Compact outdoor unit
2 heat, 2 cool	1 heat, 1 cool	2 heat, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool
FX10 Controls	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	N/A	Yes, with NAH air handler	Yes, with NAH air handler
N/A	Optional 040 to 075 models	N/A	Optional Internal mount pump	N/A
N/A	N/A	N/A	Yes, with NAH air handler Dual fuel option	Yes, with NAH air handler Dual fuel option
HydroZone	HydroZone	HydroZone	IntelliZone	IntelliZone
 Yes	 Yes 018, 025, 040, 050 and 060 models	 Yes 100 and 120 models	 Yes All sizes *With NAH Air handler or WaterFurnace A-Coil	 Yes All sizes *With NAH Air handler or WaterFurnace A-Coil



## CAPTURE THE FREE HOT WATER FROM YOUR UNIT

### 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.



## CONTROL THE TEMPERATURE OF EVERY ROOM IN YOUR HOME

### INTELLIZONE®2

IntelliZone2 provides you with precise control over your indoor environment, allowing you to adjust the zones to condition only the rooms that need it. Your WaterFurnace system will run more efficiently—saving you money and providing better comfort.



## THE FRESHEST CLEANEST AIR FOR YOUR FAMILY'S HEALTH

### 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 include premium air cleaners, purifiers and media filters.

BR1510MW 5/13



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