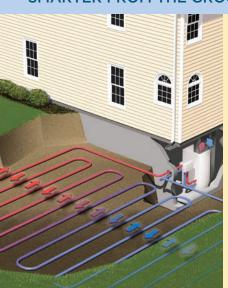
ALL THE COMFORTS OF HOME

WATERFURNACE RESIDENTIAL PRODUCT LINE





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".

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.

GEO TAX CREDIT

Extra savings on geo

A 30% tax credit on equipment and installation costs is currently available to U.S. homeowners who install an ENERGY STAR rated geothermal system. The credit can be used to offset both AMT and regular income taxes and can be carried forward into future years. The 30% tax credit will last until the end of 2019 where it is scheduled to decrease in amount each year through 2021. Hurry and act now for the most savings!

30⁹ THROUGH

26[%] THROUGH 2020

% **22**% THROUGH 2021

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.

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.







5 SERIES 500A11

Overall efficiency, performance & features: *** 28 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.







3 SERIES 300A11

Overall efficiency, performance & features: *** 22.3 EER / 4.1 COP

WaterFurnace 3 Series 300A11 units represent the culmination of 30 years of research, engineering, and manufacturing experience—all at a great price point. The 300A11 provides forced air heating and air conditioning, and even generates a portion of your home's hot water. This unit provides efficient performance, quiet operation, and a level of comfort and savings that's greater than any ordinary system. The 3 Series is the first residential unit to feature an all-aluminum air coil, providing years of durability and peace of mind.







5 SERIES 506A11

Overall efficiency, performance & features: *** 27.6 EER / 4.6 COP

The 5 Series 506A11 is our latest offering in the 5 Series residential geothermal product line. It provides the space-saving convenience of an all-in-one unit along with the benefit of being less intrusive to your home with an installation on either the roof or outside. This packaged outdoor system comes with our innovative Aurora controls for advanced two-way communication between components and the ultimate in performance and troubleshooting. The 506A11's outdoor cabinet is outdoor-rated and fabricated from heavy-gauge steel with a corrosion-resistant coating for years of durability. Dual capacity compressors offer high performance while aluminum air coils provide extra-long durability and system life. Optional internal electric heat is available.













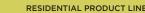




Your home's comfort is important to you and your family. You want a comfort system that will provide you with peace of mind and low operating costs for many years.

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.

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



Ask about EGSY FINANCING



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

A WaterFurnace unit is the environmental equivalent of

taking two cars off the road forever.

HYDRONIC UNITS

5 SERIES 504W11 3 to 6 tons

Overall efficiency, performance & features: *** 16.1 EER / 3.3 COP

The 504W11 high temperature hydronic heat pump with OptiHeat technology is another geothermal solution for boiler replacement. It utilizes an additional heat exchanger to divert excess heat and reinjects it into the system, creating higher exiting water temperatures and optimum compressor operating conditions. Smaller loads are required and result in the ultimate in efficiency.







5 Series 500W11 1.5 to 6 tons

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

5 Series 500W11 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 500W11 to be used in a variety of applications. The 500W11 samples entering water temperature and automatically enables the pumps and compressor for peak performance.







ENVISION NDW 8 to 15 ton

Overall efficiency, performance & features: *** 22.0 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.







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

FORCED AIR/HYDRONIC COMBO UNIT

SYNERGY3D

Overall efficiency, performance & features: *** 25.7 EER / 4.2 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 combo unit.







SPLIT UNITS

5 SERIES 500R11 INDOOR SPLIT

Overall efficiency, performance & features: *** 25.3 EER / 4.4 (OP

5 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 5 Series SAH 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 5 Series 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 5 Series Indoor Split provides the amazing efficiency of geothermal with the versatility of a split.





5 SERIES 500RO11 OUTDOOR SPLIT

Overall efficiency, performance & features: *** 25.3 EER /4.4 COP

5 Series Outdoor Splits are designed for outdoor use where indoor systems would be difficult to install. 5 Series Outdoor Splits are engineered to be connected to our 5 Series SAH 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 5 Series 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 5 Series Outdoor Split will provide exceptional performance and comfort for many years.







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.









	FORCED AIR UNITS			FORCED AIR/ HYDRONIC COMBO	HYDRONIC UNITS			SPLIT UNITS			
						***	****	***	****		
		7 Series 700A11	5 Series 500A11	3 Series 300A11	5 Series 506A11	Synergy3D	5 Series 504W11	5 Series 500W11	Envision NDW	5 Series 500R11	5 Series 500RO11
Applications		The ultimate in luxury. Variable capacity forced air heating and cooling with hot water assist.	Upscale comfort. Dual or single capacity forced air heating and cooling with hot water assist.	A smart choice. A smart value utilizing dual capacity efficiency.	Outdoor unit, indoor comfort. Dual capacity forced air heating and cooling in an outdoor packaged unit.	Premium Forced Air + Radiant Hot Water 3-in-1 system. Forced air heating & cooling with capability of radiant floor heat.	High temperature hydronic. For boiler replacement and hot water applications.	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.	Indoor Split Versatility. Used with remote air handler (shown above) or gas furnace.	Outdoor Split Outdoor unit. Used with remote air handler or gas furnace.
Sizes		3 to 5 ton variable capacity	1 to 6 ton single speed (9 sizes) 2 to 6 ton dual capacity (5 sizes)	2 thru 6 ton dual capacity (5 sizes)	2 to 6 ton dual capacity (5 sizes)	3 to 6 ton dual capacity (4 sizes)	3 to 6 ton single speed (3 sizes)	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)
Efficiency AHRI 13256-1 (GLHP) Closed	Part Load	5.1 - 5.3 COP 36.0 - 41.0 EER	3.9 - 4.8 COP 24.9 - 28.0 EER	3.7 - 4.1 COP 20.6 - 22.3 EER	3.9 - 4.6 COP 21.8 - 27.6 EER	4.0 - 4.2 COP 21.0 - 25.7 EER	N/A - Single speed/full load units only	N/A - Single speed/full load units only	3.3 - 3.5 COP 18.4 - 22.0 EER	3.8 - 4.4 COP 20.0 - 25.3 EER	3.8 - 4.4 COP 20.0 - 25.3 EER
loop	Full Load	3.5 - 3.6 COP 19.4 - 22.0 EER	3.7 - 4.2 COP 17.6 - 22.0 EER	3.4 - 3.8 COP 15.5 - 16.5 EER	3.7 - 4.1 COP 16.6 - 19.7 EER	3.7 - 3.9 COP 16.1 - 18.7 EER	3.2 - 3.3 COP 16.1 EER	2.9 - 3.1 COP 14.0 - 17.5 EER	2.7 - 3.1 COP 15.8 - 16.8 EER	3.3 - 4.0 COP 15.0 - 19.9 EER	3.4 - 3.9 COP 15.0 - 17.1 EER
Refrigerant	:	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Compressor		High-efficiency (variable capacity)	High-efficiency scroll (single speed & dual capacity)	High-efficiency scroll (dual capacity)	High-efficiency scroll (dual capacity)	High-efficiency scroll (dual capacity)	Vapor injection scroll (single speed)	High-efficiency scroll (single speed)	Dual high-efficiency scroll (single speed)	High-efficiency scroll (single speed & dual capacity)	High-efficiency scroll
Blower		Variable speed ECM Oversized ECM (036 model only)	Premium variable speed ECM or 5-Speed ECM, Optional PSC in single s peed units	5-speed ECM	Premium variable speed ECM	Premium variable speed ECM	None	None	None	Variable speed ECM when mated to SAH Air Handler.	Variable speed ECM when mated to SAH Air Handler.
Cabinet Configurations		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 side or end discharge All left or right return	Vertical bottom flow, Horizontal side flow	Vertical top flow All left or right return	Compact unit with rear water connections Controls are field convertible from front to back	Compact unit with rear water connections Controls are field convertible from front to back	Compact unit with rear or top mounted water connections Controls are field convertible from front to back	Compact cube	Compact outdoor unit
Stages (* with aux.)		Variable	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool	1 heat, 1 cool	1 heat, 1 cool	2 heat, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool
Control		Aurora Variable Speed Controller with energy and refrigeration monitoring standard Optional performance monitoring Aurora Interface Diagnostic (AID) Tool Onboard diagnostics	Aurora Base Controller Optional Aurora Advanced Controller with energy monitoring Optional performance monitoring Optional refrigeration monitoring Aurora Interface Diagnostic (AID) Tool Onboard diagnostics	Aurora Base Controller Aurora Interface Diagnostic (AID) Tool	Aurora Base Controller Optional Aurora Advanced Controller with energy monitoring Optional performance monitoring Optional refrigeration monitoring Aurora Interface Diagnostic (AID) Tool Onboard diagnostics	Microprocessor Fault & status lights Onboard diagnostics Fault retry	Aurora Advanced Controls	Aurora Advanced Controls	Microprocessor Mode, status & fault lights Onboard diagnostics via user interface Fault retry	Aurora	Aurora
Air Coil		Coated	All-aluminum	All-aluminum	All-aluminum	Coated	N/A	N/A	N/A	Yes, with SAH Air Handler	Yes, with SAH Air Handler
Desuperheater		Optional Internal mount pump	Optional Internal mount pump	Optional Internal mount pump	N/A	Optional External mount pump	N/A	Optional 040 to 075 models	N/A	Optional Internal mount pump	N/A
Auxiliary Heat		Optional Internal mount on vertical	Optional Internal mount on vertical	Optional Internal mount on vertical	Optional Internal mount on vertical	Optional Internal mount on vertical	N/A	N/A	N/A	Yes, with SAH Air Handler Dual fuel option	Yes, with SAH Air Handler Dual fuel option
Zone Control Option		IntelliZone2 (up to 6 zones)	IntelliZone2 (up to 4 zones)	IntelliZone2 24V (up to 4 zones)	IntelliZone2 (up to 4 zones)	IntelliZone2 24V (up to 4 zones)	HydroLogic	HydroLogic	HydroLogic	IntelliZone2 24V (up to 4 zones)	IntelliZone2 24V (up to 4 zones)
ENERGY STAR Rated (Closed earth loop rating points)		Yes All sizes	Yes All ECM models and most PSC models	Yes All sizes	Yes All sizes	Yes All sizes	Yes ENERGYSTAR	Yes 018, 025, 040, 050 (NHROYSTAR) and 060 models	Yes 100 and 120 models	*With SAH Air Handler DNERGYSIAF or WaterFurnace A-Coil	Yes—All sizes *With SAH Air Handler or WaterFurnace A-Co



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.



SYMPHONY

Symphony is a Wi-Fi based comfort platform that allows you to change the temperature, set a schedule and monitor vacation mode. Connect to the personalized dashboard for remote functionality—all from the comfort of your sofa.



INTELLIZONE®2

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

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