

# 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 do not rely on expensive, limited fossil fuels which negatively impact our environment. With energy efficiency ratings of 300-400%, WaterFurnace systems save many homeowners up to 60% 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".

### PRODUCT SELECTION

Your home's comfort is important to you and your family. And 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-point rating system for each group to clearly demonstrate a "Best, Better, Good" rating based on overall efficiency, performance, features and application flexibility.

### Envision

Overall efficiency, performance & features: ★★★★★



WaterFurnace Envision products set the industry standard for efficiency, reliability and quiet operation. Available in seven single speed sizes and five dual capacity sizes, Envision units provide exceptional performance. All Envision units utilize the ozone-safe R-410A refrigerant to meet the most stringent EPA requirements now and for many years to come. Coated air coils add durability and longer life. A sophisticated microprocessor control sequences all components during operation for optimum performance, and provides easy-to-use troubleshooting features with fault lights and on-board diagnostics. Unit configurations include horizontal, vertical top discharge and vertical bottom discharge. Heavy-gauge metal cabinets are coated with durable poly paint for long lasting protection. Envision products represent the Company's highest efficiency units combined with features that provide the ultimate in performance and reliability.

### PREMIER SERIES

Overall efficiency, performance & features: ★★★★★



Premier Series products raised the bar when introduced over a decade ago. Since then, many manufacturers have attempted to duplicate the Premier's performance, quality, reliability and quiet operation. Through continuous improvements and upgrades, the Premier family has earned a reputation for excellence and innovation. Units are available in 10 sizes and in vertical and horizontal configurations. Cabinets are constructed with heavy-gauge metal and coated with durable poly paint for long lasting beauty and protection. Units sized 1½ ton and larger feature Copeland Scroll compressors for the ultimate in performance and reliability. Coated air coils add durability and long life. A sophisticated microprocessor control sequences all components during operation for optimum performance, and provides easy-to-use troubleshooting features with fault lights and on-board diagnostics. For flexibility, most sizes are available with either PSC or variable speed ECM blower motors.

### SYNERGY3

Overall efficiency, performance & features: ★★★★★



With the Synergy3 Series, you'll enjoy incredible energy savings on your heating and cooling costs while providing hot water for radiant floor heat. The Synergy3 is the geothermal equivalent of a boiler, furnace and air conditioner—all in a single unit. Units are available in three vertical sizes. Cabinets are constructed with heavy-gauge metal and are coated with durable poly paint for long lasting beauty and protection. Copeland Scroll compressors provide outstanding performance and reliability, while coated air coils add durability and longer life. Variable speed ECM blower motors are used for quiet operation. A sophisticated microprocessor control sequences all components during operation for optimum performance, and provides easy-to-use troubleshooting features with fault lights and on-board diagnostics. To help achieve ultimate comfort, heating priority may be given to forced air zones or radiant floor heat.

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 it meets or exceeds performance standards for efficiency and safety, and will perform flawlessly at startup. 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 can be assured that you're investing in the ultimate comfort system and peace of mind for many years to come.



## EZ SPLIT SERIES

Overall efficiency, performance & features: ★★★★★

EZ Series splits are designed for indoor installations, and are connected to an indoor air handler (or fossil fuel furnace) via refrigerant lines and control wiring. EZ units utilize the ozone-safe R-410A refrigerant to meet the most stringent EPA requirements. Easily accessible controls and connections make this unit simple to install in a wide variety of applications. Heavy gauge metal cabinets are coated with attractive and durable polyester powder coat paint. The EZ Series split will provide exceptional performance and comfort for many years. And because there is no outdoor fan like ordinary air conditioners or heat pumps, the EZ is "whisper quiet".



## 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.

## ES SPLIT SERIES

Overall efficiency, performance & features: ★★★

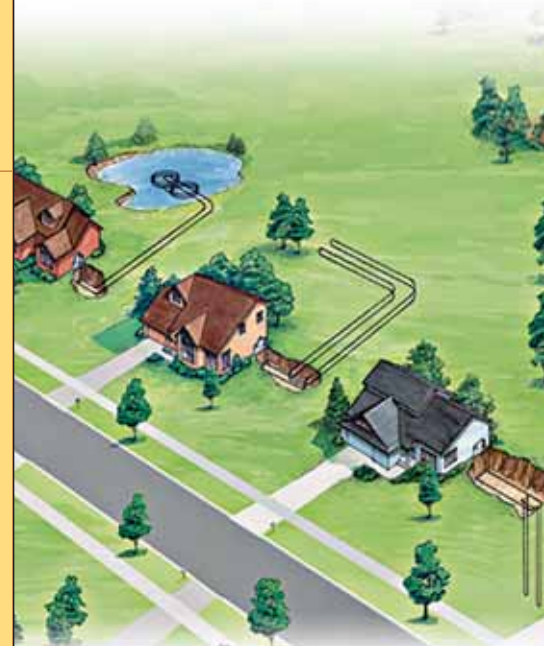
ES Series splits are designed primarily for outdoor installations, and are connected to an indoor air handler (or fossil fuel furnace) via refrigerant lines and control wiring. ES units utilize the ozone-safe R-410A refrigerant to meet the most stringent EPA requirements. Easily accessible controls and connections make this unit simple to install in a wide variety of applications. Heavy gauge metal cabinets are coated with poly paint for protection from the weather and elements. For outdoor installations that require an aesthetic touch, an optional decorative rock cover is available in four colors (brown granite, gray granite, salt & pepper, and charcoal basalt). The ES Series split will provide exceptional performance and comfort for many years. And because there is no outdoor fan like ordinary air conditioners or heat pumps, the ES is significantly quieter.



## PREMIER SPLIT SERIES

Overall efficiency, performance & features: ★★★

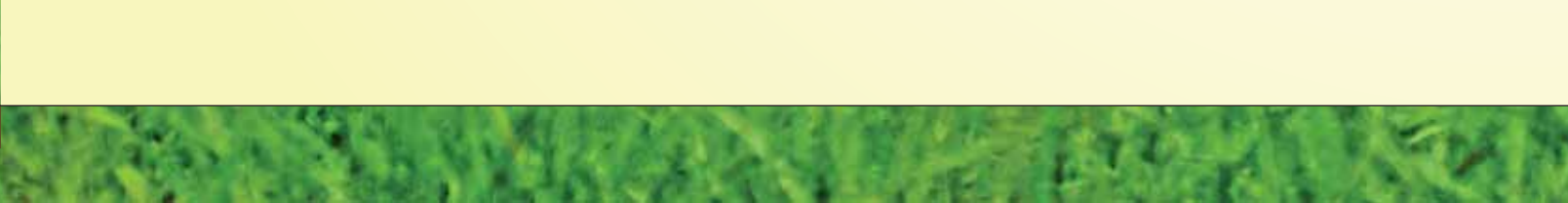
WaterFurnace Premier Splits are designed for indoor installations, and are connected to an indoor air handler (or fossil fuel furnace) via refrigerant lines and control wiring. Easily accessible controls and connections make this unit simple to install and service. They are available in five sizes for use in a wide variety of applications. Like all Premier units, Premier split cabinets are fabricated with heavy gauge metal and are coated with durable polyester powder coat paint for long lasting beauty and protection. And because there is no outdoor fan like ordinary air conditioners or heat pumps, the unit operates with very low sound levels. All units feature Copeland Scroll compressors for the ultimate in reliable, efficient operation. The Premier split will provide exceptional performance and comfort for many years.





	<b>Envision</b>	<b>Premier</b>	<b>Synergy3</b>	<b>Versatec</b>
<b>Applications</b>	<b>Ultimate luxury.</b> "Best" overall. Exceptional comfort and unmatched performance.	<b>Upscale.</b> Great choice for excellent performance.	<b>Luxury.</b> 3-in-1 system. Forced air heating & cooling with capability of radiant floor heat.	<b>Economy.</b> "Good" choice for a basic no-frills unit.
<b>Sizes</b>	2 thru 6 ton single speed (7 sizes) 2 thru 6 ton dual capacity (5 sizes)	¾ thru 6 ton (10 sizes)	4 thru 6 ton (3 sizes)	1 thru 5 ton vertical (9 sizes) ¾ thru 6 ton horizontal (11 sizes)
<b>Efficiency</b> <b>ARI 13256-1 (GLHP)</b> <b>(Closed earth loop rating points)</b>	3.7 - 4.3 COP 18 - 23 EER (single speed)  3.8 - 5.0 COP 16.5 - 30 EER (dual capacity)	3.3 - 3.8 COP 14.7 - 18.0 EER	3.4 - 3.7 COP 14.6 - 16.6 EER	3.1 - 3.6 COP 12.1 - 16.2 EER
<b>Refrigerant</b>	R-410A	R-22	R-22	R-22
<b>Compressor</b>	Copeland Scroll	Tecumseh Rotary (¾ - 1 ton single speed) Copeland Scroll (1½ - 6 ton single speed)	Copeland Scroll (single speed)	Tecumseh Rotary (vert. ¾ - 1½ ton single speed) (horiz. 1½ ton single speed) Bristol or Tecumseh reciprocating (all other sizes, single speed)
<b>Blower</b>	ECM variable speed Optional PSC single speed except in dual capacity units	ECM variable speed Optional PSC single speed	ECM variable speed	PSC single speed
<b>Cabinet Configurations</b>	Vertical top flow Vertical bottom 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 Left return	Vertical multipositional top flow Horizontal side or end discharge, left or right return
<b>Stages (* with aux.)</b>	3 heat*, 2 cool	3 heat*, 2 cool	3 heat*, 2 cool	2 heat*, 1 cool
<b>Control</b>	Microprocessor Fault & status lights Onboard diagnostics Fault retry	Microprocessor Fault & status lights Onboard diagnostics Fault retry	Microprocessor Fault & status lights Onboard diagnostics Fault retry	Electromechanical with CCM
<b>Coated Air Coil</b>	Yes	Yes	Yes	Yes, on vertical 1½ - 5 ton only
<b>Desuperheater</b>	Optional Internal mount pump	Optional Internal mount pump	Not available	Optional in vertical only External mount pump
<b>Auxiliary Heat</b>	Optional Internal mount on vertical	Optional Internal mount on vertical	Optional Internal mount	Optional External mount
<b>Zone Control</b>	Optional	Optional	Optional	Optional
<b>ENERGY STAR Rated</b> <b>(Closed earth loop rating points)</b>	Yes All sizes	Yes All sizes	No Energy Star rating requires Domestic Hot Water generation.	No Except vertical 1½ ton and horizontal 1½ - 2 ton

**Dealer Notes**





### EW Series

**Hydronic.** Add-on to other unit for high volume hot water users. Also for radiant floor, spas, pools, fan coils.

1/2 thru 5 tons  
(4 sizes)

2.8 - 3.3 COP  
10.7 - 13.5 EER

R-410A

Copeland Scroll  
(single speed)

None

Compact unit

1 heat, 1 cool

Microprocessor  
Mode, status & fault lights

Not applicable

Optional. Internal mount pump  
Not available on 1/2 & 2 1/2 ton

Not applicable

Not applicable

Not applicable

### ES Split

**Outdoor unit.**  
Used with remote air handler or gas furnace.

2 thru 6 ton single speed  
(6 sizes)  
3 thru 5 ton dual capacity  
(3 sizes)

3.9 - 4.0 COP  
19.2 - 19.6 EER (single speed)

3.6 - 4.6 COP  
16.2 - 25.0 EER (dual capacity)

R-410A

Bristol Reciprocating  
(2 - 2 1/2 ton single speed)  
Bristol TS  
(3 - 6 ton dual capacity)

ECM or PSC, depending on air handler selected. Must be ECM for dual capacity units.

Compact unit

3 heat\*, 2 cool

Microprocessor  
Fault retry

Depends on air handler

Optional  
External mount indoors

Depends on air handler  
Dual fuel option

Optional

Yes  
All sizes

### Premier Split

**Economy.**  
Used with remote air handler or gas furnace.

1/2 thru 5 ton  
(5 sizes)

3.7 - 4.0 COP  
15.2 - 19.3 EER

R-22

Copeland Scroll  
(single speed)

ECM or PSC, depending on air handler selected.

Compact cube

2 heat\*, 1 cool

Electromechanical with CCM

Depends on air handler

Optional  
Internal mount pump

Depends on air handler  
Dual fuel option

Optional

Yes  
All sizes

### EZ Split

**Versatility.**  
Used with remote air handler or gas furnace.

2 thru 6 ton single speed  
(7 sizes)  
3 thru 6 ton dual capacity  
(4 sizes)

3.2 - 3.9 COP  
15.2 - 18.0 EER (single speed)

3.3 - 4.5 COP  
13.4 - 24.5 EER (dual capacity)

R-410A

Bristol Reciprocating  
(2 - 3 ton single speed)  
Copeland Scroll  
(3 1/2 - 6 ton single speed)  
Bristol TS  
(3 - 6 ton dual capacity)

ECM or PSC, depending on air handler selected. Must be ECM for dual capacity units.

Compact cube

3 heat\*, 2 cool

Microprocessor  
Fault & status lights  
Onboard diagnostics  
Fault retry

Depends on air handler

Optional  
Internal mount pump

Depends on air handler  
Dual fuel option

Optional

Yes  
Except 5 ton single speed

## EW SERIES

Overall efficiency, performance & features: ★★★★★



The wide range of operating temperatures, compact size, reversible control box and piping enable the EW Hydronic Heat Pumps to be used in a variety of applications. These include pool/spa heating, radiant floor, snow melt, aquaculture, and process water installations. EW units can be selected as heating only or heating/cooling models (except the EW020- heating only). A sophisticated microprocessor controls the pumps and compressor by sampling the entering water temperature. The controller enables the user to view all modes of operation and easily adjust temperatures. All fault conditions are monitored by the controller to ensure safe, reliable operation. The EW unit cabinet is fabricated from heavy-gauge steel and finished with a corrosion-resistant polyester coating to provide years of durability and beauty. Scroll compressors, R-410A refrigerant, and oversized heat exchangers combine to provide the user with exceptional energy savings.

## VERSATEC SERIES

Overall efficiency, performance & features: ★★



Versatec Series products are the units of choice for homeowners who desire a balance between performance and price. Versatec units are available in both a VL group for water source heat pump applications, and a VX group for closed loop applications. Available in 10 vertical sizes and 11 horizontal sizes, Versatec units provide the user with a great combination of efficiency, flexibility, options and value. All Versatec units utilize R-22 refrigerant and PSC blower motors. Standard electromechanical controls are included to facilitate easy installation and quick service. Heavy gauge metal cabinets add durability to the system, and can be ordered with durable poly paint for added protection. The wide range of other options makes Versatec units an ideal choice for versatility.

## AlpinePure HRV (Heat Recovery Ventilator)

Overall efficiency, performance & features: ★★★★★



The AlpinePure HRV is a device that moves stale contaminated air from bathrooms and kitchens to the outdoors. At the same time it draws fresh, oxygen-rich air from outside, filters it and delivers it throughout your home. Stale, polluted air is constantly being replenished by an equal amount of fresh, clean air. As the two air streams pass each other through the HRV they do not mix. They pass on opposite sides of thin metal fins and transfer heat. The incoming air is now closer to the temperature of the air inside your home. Virtually all of the energy is transferred and little energy is needed to further condition the incoming fresh air. The volume of stale discharged air and the amount of incoming fresh air is equal, providing a balanced system. Other ventilation strategies may cause depressurization of the home, causing air infiltration into wall cavities which can lead to moisture damage, rot or harmful mold.

For the *ultimate* comfort system consider these options:



### IntelliZone

Precisely control the temperature in up to four zones. Using a sophisticated microprocessor, individual thermostats, and motorized dampers, the IntelliZone monitors and adjusts the distribution of air for improved comfort and energy savings.



### Digital 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.



### AlpinePure HEPA Filtration

HEPA filters are the most efficient filters available for removing minute particles which can be breathed deep into the lungs. The AlpinePure HEPA filter has a 99.97% efficiency for pollutants as small as 0.30 microns.



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