



# ENVISION™

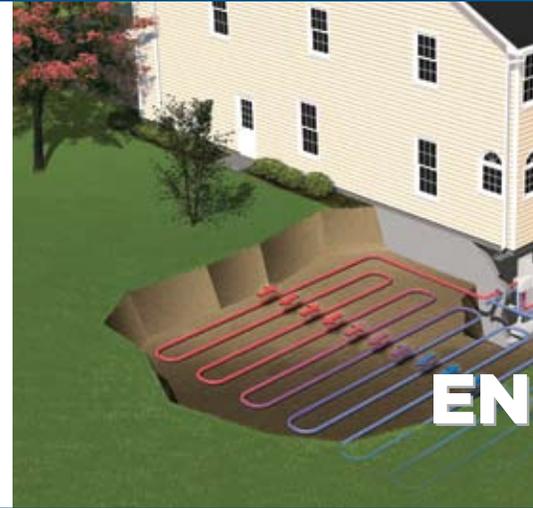


**WaterFurnace.**  
Smarter from the Ground Up™



PREMIUM COMFORT SYSTEM

Your best solution to high energy costs, enhanced comfort and improved reliability is the WaterFurnace Envision series. Designed with leading edge technology, the Envision series takes heating and cooling efficiency to a new standard. Compared to ordinary furnaces and air conditioners, Envision can provide you with energy savings of up to 70%. Coupled with today's best thermostats and an integrated monitoring system, the Envision will provide the finest in comfort and reliability. Best of all, this smart technology uses the earth as a free energy source.



**ENERGY EFFICIENT:** WaterFurnace Envision systems are rated number one in energy efficiency because they can deliver an astounding five 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 500 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:** Capturing the relatively stable temperature of the Earth to heat and cool your home, WaterFurnace systems provide consistent, comfortable heating and cooling. You can even regulate temperatures in different areas of your home with an optional 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. 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 dependable 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.

**SAFE:** Because natural gas, propane or oil is not required to operate a WaterFurnace unit, there's no combustion, flames or fumes and no chance of carbon-monoxide poisoning.

**FLEXIBLE:** One compact WaterFurnace unit provides heating, central air conditioning and supplemental domestic hot water. Horizontal, vertical, and bottom-flow configurations are available for a wide range of home applications, including newly constructed and existing homes. No matter what climate you live in, your WaterFurnace system will deliver.

**CLEAN:** High-efficiency air cleaners found in WaterFurnace systems keep your indoor air quality clean, removing dust and pollen so you can breathe easier.

**ENVIRONMENTALLY FRIENDLY:** The ground absorbs about 47 percent of the sun's energy that reaches the Earth. WaterFurnace systems harness that free, renewable energy and provide an environmentally friendly way 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. And the WaterFurnace system doesn't burn fossil fuels, which means no emissions or harmful greenhouse gases are released into the air.



WaterFurnace systems use the Earth's ability to store heat energy as a perfect source for high efficiency heating and cooling. Using advanced technology, WaterFurnace systems tap into that stored energy to provide comfort for your home year round. Heat energy is collected and transferred through an *earth loop*—an underground piping system. With a WaterFurnace system, you'll not only save money, but you'll experience enhanced comfort and safe, quiet operation with a system that's environmentally friendly. That's why we call it *"Smarter from the Ground Up"*.



## THE ENVISION SERIES TECHNOLOGY

WaterFurnace Envision products feature advanced technology and innovative components to achieve the highest levels of performance and peace of mind. Environmentally safe R-410A refrigerant is used in all units. Envision products also include Copeland Scroll™ compressors in either single speed or dual capacity models. Scroll compressors are widely regarded throughout the industry as the most durable and efficient compressor technology. Dual capacity Scroll compressors used in some sizes allow the Envision series units to operate in low on mild days for exceptional efficiency, then automatically shift to full capacity on days with extreme temperatures. This dual capacity operation provides you with the finest in comfort and energy savings. And with sophisticated yet robust microprocessor controls, compressor monitoring and today's best digital thermostats, the Envision series sets the new industry benchmark.

The World's First  
**30 EER & 5 COP**  
Comfort System

## THE ENVISION SERIES DESIGN:

- 1 BLOWER MOTOR:** A variable-speed ECM blower motor with up to 12 airflow selections allows the unit to provide enhanced comfort, quiet operation and energy savings. A PSC blower motor is also available on single speed models.
- 2 CABINET:** The cabinet is finished with a durable silver metallic finish for long lasting beauty and protection. Fully insulated for quiet operation. Cleanable, foil backed insulation. New exterior design elements put the unit in the same class as today's stylish high-end appliances.
- 3 COATED AIR COIL:** Our exclusive FormiShield™ Plus coating on the air coil resists corrosion and increases equipment life. Its large size improves efficiency and dehumidification during cooling.
- 4 DRAIN PAN:** Electronic overflow protection is included to eliminate the possibility of condensate flooding. Constructed of plastic, the drain pan is also corrosion-proof and resists bacterial growth.
- 5 HOT WATER ASSIST:** With an optional hot water assist, the Envision preheats your water and delivers it to your water heater. The longer the unit operates, the greater the amount of hot water generated. In the heating mode the hot water is generated at the efficiency of the unit. In cooling, waste heat is recovered and hot water is free!
- 6 COMPRESSOR:** Copeland Scroll™ compressors are featured in all Envision products. Superb efficiency and reliability. Dual capacity units include Scroll UltraTech™ compressors. Mounted on double-isolation plates for extra quiet operation.
- 7 CONTROLS:** Sophisticated microprocessor control sequences components to provide ultimate performance. Onboard diagnostics allow for easy service. Controls communicate with thermostat to display service messages. ComfortAlert module monitors compressor operation for added reliability and easy troubleshooting.
- 8 LED STATUS LIGHTS:** Externally mounted status lights indicate normal operation or display faults and assist the technician in troubleshooting.

**FACTORY QUALITY:** WaterFurnace systems are the result of state-of-the-art research and development. Dozens of quality checks are performed throughout the assembly process, and computer-run testing is done on every unit, ensuring flawless start-up and long-term reliability.

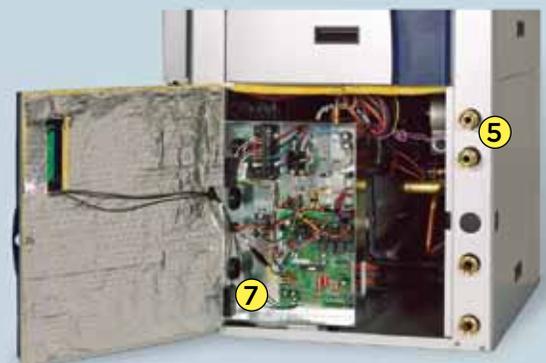
**R-410A:** R-410A is an environmentally friendly, non-ozone-depleting refrigerant that enhances efficiency and savings.

### ARI CERTIFIED/ETL LISTED/ENERGY STAR RATED:

WaterFurnace Envision Series Units are performance-certified by the AHRI, safety listed by ETL and exceed performance standards for the ENERGY STAR rating.

### ARI / ISO Ratings (13256-1)

Model & Size			Closed Loop		Open Loop	
			Cooling EER	Heating COP	Cooling EER	Heating COP
Dual Capacity	026	High	18.6	4.2	24.0	5.0
		Low	26.8	4.7	31.2	5.4
	038	High	20.1	4.2	24.1	5.0
		Low	30.0	5.1	32.1	5.4
	049	High	18.0	4.1	22.7	4.7
		Low	25.1	4.7	28.3	5.2
	064	High	18.0	3.9	22.7	4.6
		Low	25.6	4.2	29.3	4.8
	072	High	16.8	3.8	20.4	4.4
		Low	23.1	4.3	26.0	4.6
Single Speed	022	ECM	21.0	4.0	30.0	5.3
		PSC	20.3	3.8	28.0	5.0
	030	ECM	21.9	4.0	28.8	5.0
		PSC	21.1	3.8	27.1	4.8
	036	ECM	22.0	4.4	30.1	5.2
		PSC	19.6	4.0	25.7	4.7
	042	ECM	21.4	4.2	29.5	5.2
		PSC	18.6	3.7	24.5	4.6
	048	ECM	19.7	4.0	26.1	4.8
		PSC	17.3	3.6	22.5	4.3
	060	ECM	19.5	3.9	26.1	4.7
		PSC	18.5	3.7	24.6	4.4
070	ECM	18.2	3.7	23.8	4.4	
	PSC	17.2	3.4	21.6	4.0	



QUALIFIES ✓  
**30% TAX CREDIT**

# Protecting the **VIRONMENT** is our ...



The Envision by WaterFurnace sets new standards for efficiency and environmental friendliness. Because the system does not use natural gas or propane, there are no harmful emissions. It also helps to conserve precious resources that are rapidly depleting. And geothermal systems reduce our dependence on foreign oil products. In fact, geothermal systems have been recognized by the EPA and the Dept. of Energy as the most environmentally-friendly heating and cooling technology available today. So you can take comfort in knowing that your Envision works in harmony with nature while saving you money.

## COMPARE THE PERFORMANCE

The WaterFurnace Envision series can dramatically reduce your annual costs for heating, cooling and hot water by as much as 70% per year. No other gas furnace, air conditioner or heat pump comes close to the Envision's efficiency. With continuous and dramatic increases in the cost of fossil fuels like natural gas, propane and fuel oil, the savings possibilities are even greater in the future. Your WaterFurnace dealer can use a sophisticated software program to estimate the heating and cooling costs for your home based on square footage, construction style and climate.

## 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 coiled, closed loops are sunk to the bottom of the body of water. 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. Envision 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 independently control the temperature in up to four zones throughout your home. Zoning precisely controls comfort in each room while lowering your energy bills.



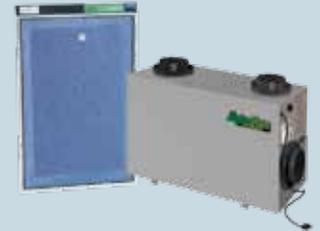
### THERMOSTATS

A variety of digital thermostats are available to ensure accurate control of your system's operation, maintaining precise comfort levels throughout your home.



### DEDICATED HOT WATER

For large demands of hot water, an NSW unit can be added to your Envision Series system to provide 100% of the domestic hot water - at three to four times the efficiency of an ordinary water heater.



### IAQ PRODUCTS

Improve your indoor air quality by adding a Heat Recovery Ventilator to remove stale air from the home. Also available are several high efficiency filters to remove dust, smoke, odors, bacteria, allergens 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.*



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waterfurnace.com | (800) GEO-SAVE