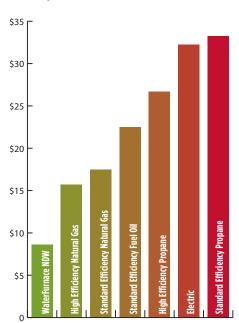




A NEW STANDARD IN PERFORMANCE

The Envision NDW Series can reduce water heating costs by as much as 60% per year. Ordinary boilers and water heaters operate at a fraction of the efficiency of the NDW Series. With skyrocketing costs of fossil fuels, savings potential will only increase. The graph below illustrates comparisons of various water heating systems.

Cost per million BTUs of hot water



Based on fuel rates of: \$0.09/kWh Electric \$1.26/ccf Natural Gas \$2.06/gallon **Propane & Fuel Oil** 2000 ft² home in Indianapolis, IN w/4 occupants

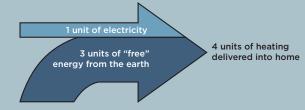
SMARTER FROM THE GROUND UP

WaterFurnace systems use the earth's ability to store heat energy as the 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 to the ground and back through an earth loop—an underground piping system. You'll save money, experience amazing comfort, and enjoy safe, quiet operation with a system that's environmentally friendly. That's why it's "Smarter from the Ground Up".

GEOTHERMAL BENEFITS

ENERGY EFFICIENT:

Our Envision NDW Series units are some of the most efficient heating and cooling systems available. They can deliver almost four dollars of heat for every



dollar of electrical energy used. That translates into an efficiency rating of 400 percent, compared to the best ordinary furnace that delivers less than 97 cents of energy for every dollar spent on expensive fossil fuels.

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 expense over the cost of an ordinary system is generally recovered in energy savings in less than five years.

COMFORTABLE: WaterFurnace NDW Series units provide consistent, comfortable heating when used in radiant floor applications.

RELIABLE: The WaterFurnace reputation for reliability has been earned by using only the highest-quality components, design and workmanship.

PEACE OF MIND: 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 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 for radiant floor, domestic/potable purposes, pool/spa heating or snow/ice melt applications. In addition, NDW units are capable of providing chilled water for cooling applications. No matter what climate you live in, your WaterFurnace system will deliver.

ENVIRONMENTALLY FRIENDLY: Installing a WaterFurnace system is the environmental equivalent of planting 750 trees or removing two cars from the road. Because a WaterFurnace system doesn't burn fossil fuels, no emissions or harmful greenhouse gases are released into the air.

RADIANT FLOOR HEATING— Many Envision NDW owners use their unit to provide hot water for radiant heat. These systems offer exceptional comfort without moving air. Not only is the floor kept toasty warm, but the entire floor radiates heat to the occupants, furnishings and the air.

DOMESTIC HOT WATER— Homes with large demands for domestic or potable water heating will benefit from the exceptional efficiency of NDW units and will realize savings by as much as 60% per year when replacing an ordinary boiler or water heating system. (Note: Secondary heat exchanger required)

POOL HEATING— The NDW is perfect for ultra-efficient pool and spa heating. It uses the heat from the earth to keep your pool and spa nice and warm year-round and is much more cost effective than an ordinary pool heater. (Note: Secondary heat exchanger required)

SNOW & ICE MELT— Keep your sidewalks or driveway free of ice and snow during the cold winter months. Eliminate the hazards of walking on ice-covered sidewalks, and reduce the need to shovel snow.



THE NDW SERIES DESIGN:

Envision NDW Series products are 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.

- (1) CABINET: The NDW unit cabinet is fabricated from heavy gauge steel and a durable metallic finish for long lasting beauty and protection. Large lift out panels provide access from all four sides and controls that can be placed on either end (allowing piping to be located on the front or at the back) improves serviceability.
- **2 AURORA CONTROLS:** Aurora Controls offer full two-way communication between components, advanced operating logic and robust troubleshooting capabilities. True energy and refrigeration monitoring are standard, and supports optional performance monitoring.
- INTELLISTART®: This optional soft starter preserves the life of your compressor, reduces light flicker, and significantly diminishes start-up noise from your unit by reducing the start-up current to just 30% of normal starting amperage.
- BRAZED PLATE HEAT EXCHANGERS: Brazed plate heat exchangers provide increased efficiency, performance, and reliability. Because they're much smaller than traditional coaxial exchangers, they allow NDW Series units to provide high capacity performance in a compact unit.
- COMPRESSOR: Two high efficiency scroll compressors keep operating costs low and will provide years of reliable operation. Sound attenuating compressor blankets and double-isolation mounting plates are used in every unit for quiet operation.

FACTORY QUALITY: Stringent standards ensure NDW units include only the finest components, and are assembled according to detailed quality control procedures by skilled technicians. Each unit is computer run-tested to ensure proper performance.

R-410A: Environmentally friendly R-410A refrigerant is used in all NDW units.

ENERGY STAR / AHRI / ETL LISTED: WaterFurnace NDW Series units are performance tested in accordance to the AHRI, and safety listed by ETL. The 100 and 120 models meet or exceed ENERGY STAR requirements.









Envision NDW	COOLING	HEATING
Closed Loop	15.8 - 22.0 EER	2.7 - 3.5 COP
Open Loop	19.8 - 24.5 FFR	3.1 - 3.7 COP

Based upon Certified ARI/ISO 13256-2

*Note: Not suitable for direct use with chlorinated water.

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 2032 when it is scheduled to decrease to 26% in 2033 and 22% in 2034. Hurry and act now for the most savings!



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.

RADIANT FLOOR HEAT







Many Envision NDW Series owners use their unit to provide hot water for radiant heat. These systems offer exceptional comfort without moving air. Not only is the floor kept toasty warm, but the entire floor radiates heat to the occupants, furnishings and the air. Use the Envision NDW Series in combination with our WaterFurnace GeoTank. The 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.

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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visit us at waterfurnace.com