

**Bard®**  
SINCE 1914

*Climate Control Solutions*

*Geothermal.*  
*A New Level of*  
***Comfort***  
*& Reliability.*



*EFFICIENCY. COMFORT. RELIABILITY.*

## *Get it All with Geothermal From Bard.*

With rising costs and environmental concerns, energy efficiency is more important than ever. At Bard, we believe you shouldn't have to sacrifice comfort or reliability for efficiency. The answer lies in Bard's innovative geothermal heat pump systems. They're not only extremely efficient, but they also deliver the quiet comfort and rugged reliability Bard is known for. So now, you really can have it all with geothermal heat pump systems from Bard.

### *BARD GEOTHERMAL ADVANTAGES*

- EXTREMELY ENERGY EFFICIENT
- QUIET OPERATION
- YEAR-ROUND COMFORT
- HEALTHY AND SAFE
- ENVIRONMENTALLY FRIENDLY
- RUGGED RELIABILITY
- COST-EFFECTIVE
- FLEXIBLE



# Get Smart About Geothermal.

Geothermal systems tap the energy in the earth's surface to heat and cool your home. It saves energy and benefits the environment by not relying on fossil fuels. Once installed, geothermal heat pump systems are extremely economical and efficient.

It works by installing a series of small pipes into the ground. Heat is then transferred to and from your home, providing an efficient, effective and safe method of year-round comfort.

## NEW OR RETROFIT

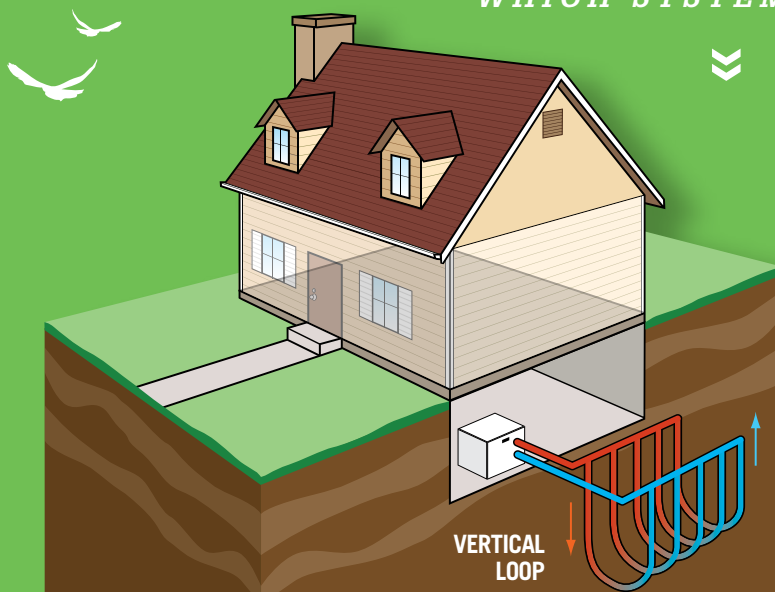
Bard geothermal heat pumps are designed to fit both new construction and existing homes. Our modern systems can replace inefficient boilers and other traditional heating sources. It's not only environmentally friendly, but it's budget friendly, too, offering substantial cost savings once installed.

As more architects, developers and builders turn to environmentally-friendly designs and materials for new homes, geothermal systems make more sense than ever. Geothermal provides both a smaller carbon footprint and a smaller architectural footprint. And when you choose Bard geothermal systems, you add in quiet comfort and rugged reliability, too.

## WHICH SYSTEM IS RIGHT FOR YOU?

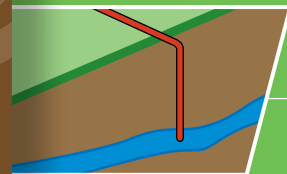


BARD HAS SEVERAL RELIABLE GEOTHERMAL HEAT PUMP SYSTEMS AVAILABLE SO YOU CAN CHOOSE THE CONFIGURATION THAT MEETS YOUR NEEDS AND BEST FITS YOUR HOME.

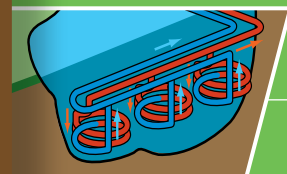


An **Open Loop** system draws water in and discharges it which exchanges heat. Choose it if you have a readily available source of ground water, such as a lake or well that has capacity to support the system.

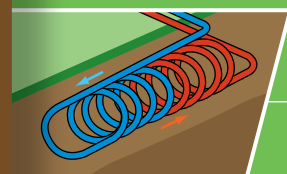
A **Closed Loop** system circulates a water and antifreeze solution through a closed loop of pipe. Choose a **Closed Vertical Loop** if space is limited. Choose a **Closed Pond Loop** if you have a pond with sufficient depth close to your home. If you have a  $\frac{1}{4}$  to  $\frac{3}{4}$  acre of available land around your home, a **Closed Horizontal** or **Slinky Loop** may be right for you.



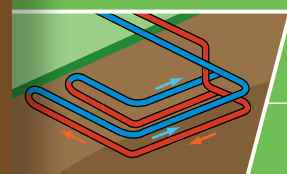
OPEN LOOP



POND LOOP



SLINKY LOOP



HORIZONTAL LOOP



## *Modern Technology Meets Old-fashioned Dependability.*



Geothermal technology doesn't get any more dependable than Bard's GEOTEC Heat Pump. Designed for easy serviceability, GEOTEC is the smart, environmentally-friendly option for comfort you can rely on.

### **GEOTEC FEATURES**

- Delivers four to five times more energy than it consumes for greater efficiency and cost savings
- Uses a non-ozone depleting refrigerant that's safe for your home and the environment
- Maximizes comfort by reducing heat cycling losses, saving energy and cutting operational costs
- Quiet operation
- Unique design makes installation easy and flexible with many configurations available



### **BARD GEOTHERMAL - SO QUIET**

When you choose a Bard Geothermal heat pump, you may notice something missing, the noise associated with your old heating and cooling system. Our units are extremely quiet thanks to several factors, including high-quality scroll step-capacity compressors and ECM blower motors, a discharge muffler, and a unique design that positions the high-quality compressor on a floating base. You will love the result – a heating and cooling system that is quieter than you ever thought possible.

**COMPRESSOR ON A FLOATING BASE  
IN ALL BARD GEOTHERMAL UNITS**





# Flexibility

*Adds Up to Even Greater Advantages.*



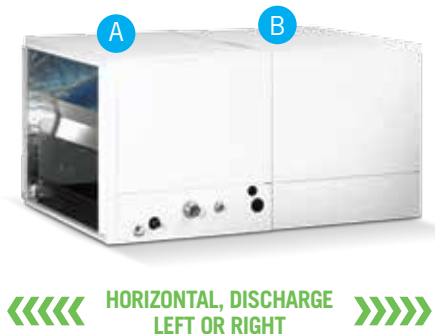
Bard's GEO-TRIO adds flexibility to its geothermal equation with the power of three. The GEO-TRIO features three self-contained, multi-position sections – an A coil, blower and compressor – which ingeniously lock together after installation – providing the ultimate in flexibility for installation.

Because the units can be setup in a variety of ways, GEO-TRIO gives installers more options to fit tight spaces, including crawl spaces, attics or closets. Together, the GEO-TRIO's three components add up to one solid unit that provides energy efficiency, comfort and Bard's unparalleled reliability.

## **GEO-TRIO ADVANTAGES**

GEO-TRIO offers all the advantages of geothermal along with these exclusive advantages:

- Low Installation Costs
- Easy Installation
- Flexibility
- Superior Humidity Control
- Space Savings
- Quiet Operation



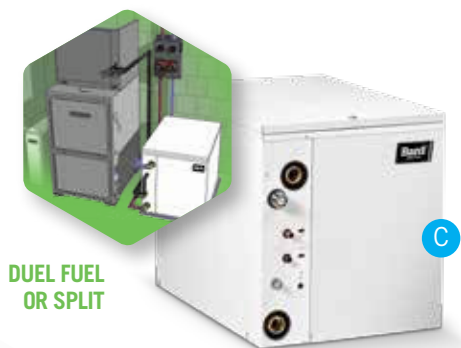
HORIZONTAL, DISCHARGE LEFT OR RIGHT

## **DUAL FUEL**

Dual Fuel adds the flexibility of a fossil-fuel furnace to the modern efficiency of a geothermal system. Other geothermal heat pumps only have one backup system available – expensive, electric resistance heat. But, Bard's innovative Dual-Fuel system lets you choose between electric, natural gas, propane or even oil as backup.

## **WHY CHOOSE YOUR FUEL TYPE**

- Allows you to take advantage of price discrepancies between fuels
- Reliable back up system for storms gives you peace of mind
- Tailor your system specifically for certain climate conditions for ultimate efficiency



DUAL FUEL OR SPLIT

**A A-COIL    B BLOWER    C COMPRESSOR**

# GEO-DELTA™



## *Radiating Warmth & Reliability.*

Bard's Geo-Delta is a water-to-water heat pump that provides year-round comfort for your home economically and efficiently. It offers all the economical and environmental advantages Bard's other geothermal systems offer, but it then takes comfort to a whole new level with radiant floor heat. Imagine toasty-warm floors every day, regardless of the temperature outside. You can also opt for installation under your driveway and walkways for snow and ice melt. And because it's from Bard, the Geo-Delta system is designed to last and keep you comfortable for years to come.



**BARD HAS BEEN BRINGING QUIET  
COMFORT AND RUGGED RELIABILITY TO  
GEOTHERMAL SYSTEMS SINCE 1981.**

### ***GEO-DELTA ADVANTAGES***

Geo-Delta offers all the benefits of geothermal, along with these exclusive advantages:

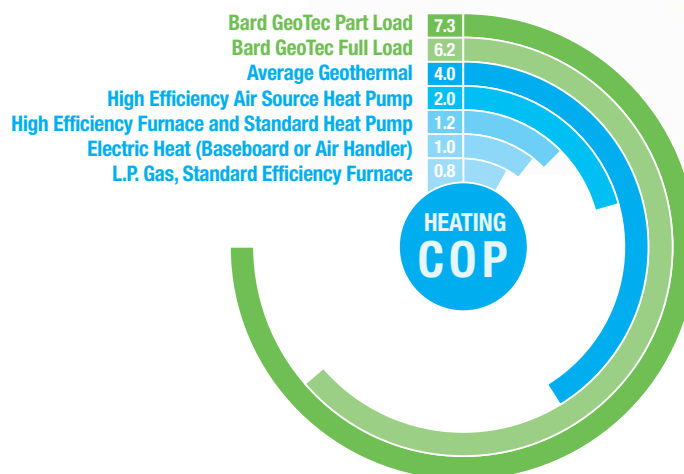
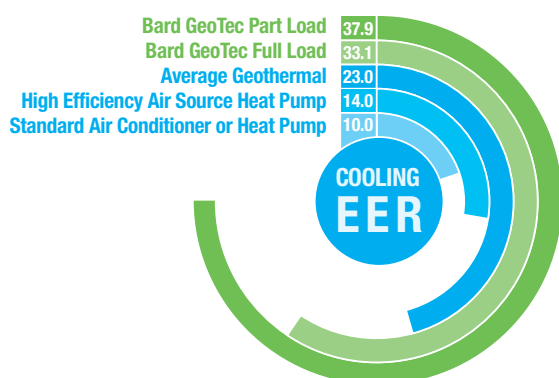
- Radiant Floor Heat
- Quiet Operation
- Space Saving Design
- Reliability
- Easy Installation and Serviceability

## Energy Efficiency By the Numbers.

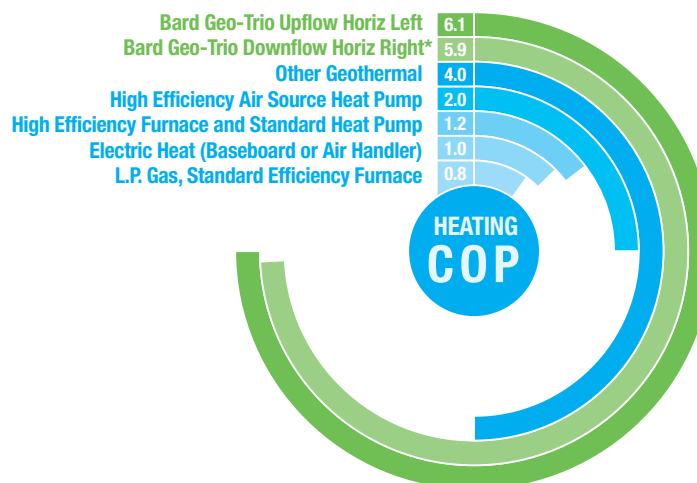
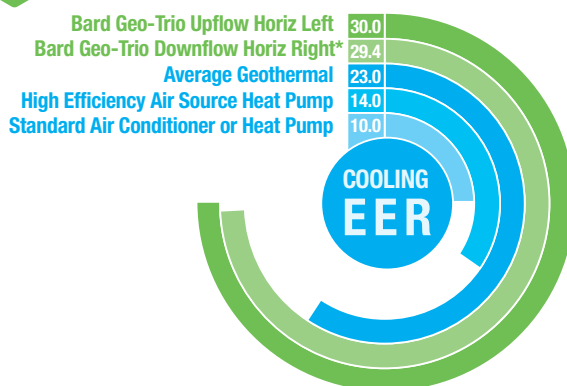
Bard delivers energy efficiency and cost savings. Here you can see how our geothermal solutions stack up against traditional and other geothermal systems.



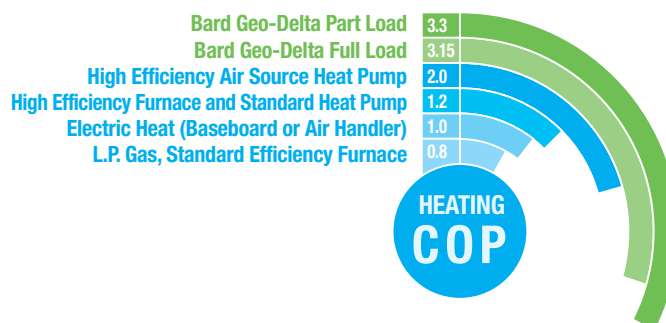
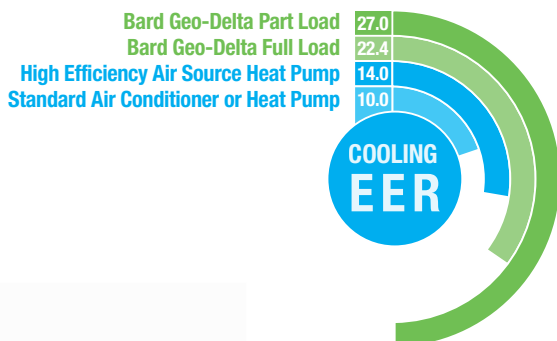
### GEO-TEC®



### GEO-TRIO®



### GEO-DELTA™



EER is the Energy Efficiency Ratio of a cooling device that compares the cooling output of a unit in BTUs to the electrical power consumed in watts. The higher the EER rating, the more efficient the unit. In most cases, Bard units surpass their listed EER rating.

\*These are actual AHRI ratings which are based upon horizontal right hand configuration installation, the lowest performance configuration.

COP is the Coefficient of Performance, the ratio of the heat at the output source compared to the work it takes to produce that heat. So, a COP of 6 means that the unit is producing \$6 worth of heat for every \$1 of energy used.

Findings are based on industry standard averages.

\*\*10 year warranty applies to registered residential installations. Online warranty registration at [www.geothermalwarranty.com](http://www.geothermalwarranty.com)

# *A History of Innovation.*



Innovation is nothing new at Bard. We've been designing and manufacturing durable and state-of-the-art heating and cooling solutions for more than 100 years. And, we were at the forefront of geothermal, manufacturing our first system in 1981 – well before being environmentally conscious was the fashionable thing to do. We're proud of the smart technology we offer today that will help keep you comfortable well into the future.

[\*\*\*bardgeothermal.com\*\*\*](http://bardgeothermal.com)



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