Geothermal systems for residential use

Geothermal heat pumps (GHPs), also known as ground-source heat pumps, can heat, cool, and even supply hot water to a home by transferring heat to or from the ground. This technology has been keeping consumers comfortable for more than 50 years and can cut energy bills by up to 65% compared to traditional HVAC units.

What Is a Geothermal Heat Pump? A geothermal heat pump draws heat from the ground and releases it in your home. They''re vastly more efficient than conventional heating systems because a heat pump doesn''t burn fuel to create warmth; it simply moves existing heat from one place to another.

Geothermal heat pumps (GHPs), take advantage of the constant temperature of the shallow earth (40°-70°F/4.5°-21°C) to efficiently exchange temperatures, heating homes in the winter and cooling homes in the summer. Leer en Español.

Geothermal heat pumps are an energy-efficient and eco-friendly alternative to traditional heating and cooling systems. By utilizing the constant temperature of the earth, a geothermal heat pump can significantly reduce energy consumption. Learn more on geothermal heating, ground source heat pumps, and geothermal heater.

Geothermal heat pump systems tap into the energy right in your own backyard--transferring heat to or from the earth to heat or cool your home. No matter what the weather is like outside, geothermal heat pumps deliver energy-efficient performance to give you the most comfortable indoor comfort for your home.

As a renewable energy source, geothermal energy reduces your carbon footprint--a single geothermal heat pump can reduce greenhouse gas emissions by 11 metric tons over its 20-year lifespan. Geothermal heat pumps are rated by their Energy Efficiency Ratio (EER) and the coefficient of performance (COP) rating, which is much like miles per gallon (MPG) for a car: the higher the rating, the more energy-efficient the system.

Packaged geothermal heat pumps are an all-in-one system that do not require an outdoor unit and are fully insulated for very quiet operation. Our Infinity(R) split-system geothermal heat pump requires an indoor unit that will produce minimal sound. The ground source heat pump is installed outside your home and also features sound reducing technologies.

Our ground source heat pumps are durable, and because they are located indoors, they can last for up to 20 years with little maintenance. Our split-system geothermal heat pump is also extremely durable and can last for up to 15 years with little maintenance.

As subject matter experts, we provide only objective information. We design every article to provide you with

deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

We won"t charge you anything to get quotes through our marketplace. Instead, installers and other service providers pay us a small fee to participate after we vet them for reliability and suitability. To learn more, read about how we make money, our Dispute Resolution Service, and our Editorial Guidelines.

There are two general types of geothermal heat pumps: closed-loop and open-loop systems. A closed-loop ground source heat pump is separated from the environment, meaning that it cycles a mixture of antifreeze and water in a completely closed loop of piping. In comparison, an open-loop setup uses naturally occurring groundwater as the refrigerant and returns the water back to the environment once it has cycled through the GSHP"s heat exchanger.

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