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The Functions of Ground Source Heat Pump by Julia Roger

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The installation cost of Ground source Heat pump is higher than any normal energy system. Thus, it means that the economies of maintaining and installing are much lesser than what it is thought. A large size heat pump consumes most of time running under load conditions. Now, the main purpose of installing the system is to heat up the house during winter times.

How the pump is used for heating?

The pumps function by using pipes that are actually underneath the ground to extract heat and then use the same for radiators and heating system, which are usually found in the flooring. Since the temperature stays constant, so the pump can be used in all seasons making it really a wonderful choice for heating.

The pump functions by circulating water solution through piping used underneath the ground. The heat present inside the ground is then absorbed in the fluid and is pumped out through an exchanger. Energy generated from heat enters into a compressor and is then concentrated through an elevated temperature that is used for general heating.

Remember, the size of ground loop is determined by the size of the home. If the loop is longer, it is able to absorb more amount of heat. It is true that a house requires large amount of space to bury the loop exactly underneath the ground.

A ground source heat pump has great environmental impact. It is true that the process requires electricity to function properly but the heat that is being absorbed from underneath the ground can be continuously and naturally renewed.

The two types of heat pumps, air to air and water to air heat pumps. The former is also known as Air source heat pump. If you study in details about the heat pumps, you will come to know about the advantages of each. This will prove how the heat pumps can bring in many advantages.

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