

2012

## Ground Source Heat Pump

The GeoSource heat pump utilizes the earth as the medium from which heat is extracted. Water is pumped through a heat exchanger in the heat pump. Heat is extracted. The water is then returned to the ground, either through discharge in a drain field or through a closed earth loop system. Because ground temperatures do not vary as dramatically as outside air temperatures, the heat available for transfer, as well as the unit's operating efficiency remains relatively constant throughout the winter. At depths of 6 feet or more below the ground, the soil maintains a year-round temperature of about 46 degree F – 50 degree F in this region. In the summer, it's cooler than the outside air; and, in the winter it's warmer – making it an ideal energy source.

Although the initial installation cost may be higher, annual operating costs are much lower than all other types of heating systems. The added savings carry over to summer where cooling costs can be 30% - 50% less than the cost of cooling with an average central air conditioning system.

Ground Source Systems are not interrupted when it's the sole installation in the home.

When put on the Dual Fuel program, it will be controlled according to those strategies.

**Rebate: \$200 per ton**

**Rate: No Special Rate for GSHP only**

**Dual Fuel Rate applies where backup system is installed**

**Financing: None**



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