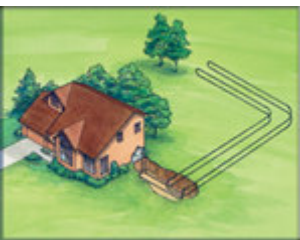


TYPES OF GEOTHERMAL INSTALLATIONS

Vertical Loop

When land area is limited, u-shaped loops of high-density polyethylene pipe are inserted into holes drilled 125 to 250 feet deep. This is a closed-loop system because the same refrigerant solution re-circulates through the loops.



Horizontal Loop

When adequate land is available, loops are placed in trenches about 6 feet deep and 100 to 300 feet long. This is also a closed-loop system.

Pond Loop

If a pond or lake is present, a closed-loop system of coiled pipe can be placed at the bottom of it. For the average home, a 1/2-acre, 8-foot deep body of water is sufficient



Open Loop

Where groundwater is plentiful, it is pulled from one location (usually a well or pond), run through the geothermal unit, and discharged back into the source. This eliminates chemical refrigerant in the loops, but poor water quality can damage the system.



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