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numerical simulation of several types of vertical ground\ud heat exchangers. The ground heat exchangers (GHEs) such as U-tube, double-tube and\ud multi-tube were simulated using the commercial CFD software FLUENT. Water flows through\ud the heat exchangers and exchanges the heat to the ground.

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respectively. Figure 7 compares the vertical profiles of longitudinal velocities with the approaching flow at different downwind positions.

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using nine different parameters, thermal conductivity, volumetric heat capacity, inlet flow, IWT, soil porosity, Darcy's velocity, and borehole depth, to study their effects on the heat flux. The modeling process was described in detail and analyzed in >101 cases.

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The paper presents the results obtained from a numerical simulation for the horizontal slinky-loop and vertical slinky-loop heat exchangers of a ground-source heat pump system. A three-dimensional

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numerical heat transfer model was developed to study the thermal performance of various heat exchanger configurations.

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