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Ground and Air Source Heat Pump- an Overview by [Julia Roger](#)

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This article is all about the heating and cooling of houses and buildings using earth and air as the heat reservoir. In the beginning, we will look into the earth as the reservoir. For this type of heating and cooling purpose, the pump that is used is called as Ground source Heat pump. The other names for this pump are geothermal heat pump and ground heat pump. This pump functions as a central heating and cooling system and it pumps heat to and from the ground. In winter season, a ground source heat pump uses the ground as heat reservoir, whereas in the summer season it utilizes the ground as heat sink. These pumps are designed in such a way that they utilize the moderate temperatures of the ground, which not only enhances the operation of the pump but also saves the cost of operation.

Whereas the Air source heat pump is a unique concept. This pump uses the air outside the house as the heat reservoir and sink. An air source heat pump uses the principles of vapor compression refrigeration. When this pump is used for the domestic heating during the winter season, it absorbs heat from the air outside and releases the same inside the house. The phenomenon is just the opposite during the summer time. This pump can provide efficient domestic heating and cooling solutions. This type of pump is used in heating and cooling systems in the colder climate and helpful in heating water in the milder climate places. The cost of installation for these pumps is generally high but in comparison with the ground source heat pump, it is cheaper. The heating and cooling operations are performed by the movement of a refrigerant that is placed in the indoor and outdoor coils.

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