

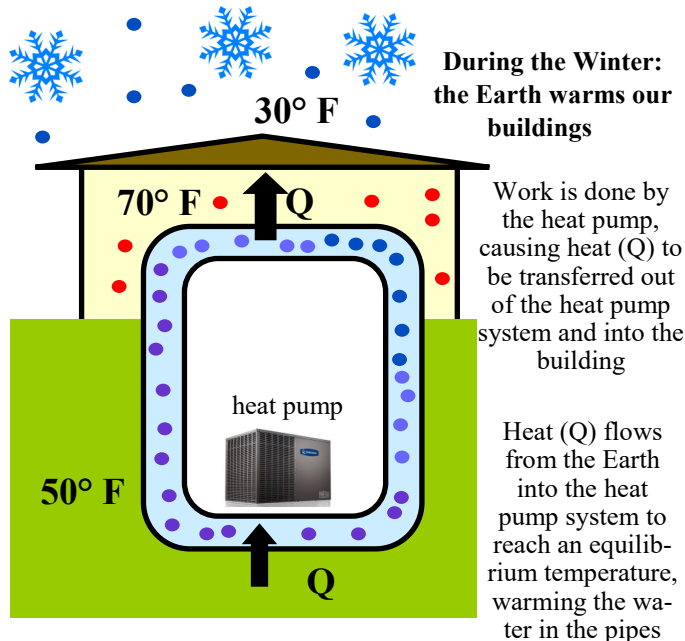


Carleton

Carleton's Geothermal Energy Project
presents.....

What is a **HEAT** pump ?

(and why should we care about it?)



Key Concepts

- ⇒ No molecules are physically exchanged between the geothermal heat pump system and the ground or the outside environment because the pipe is an isolated system, a closed loop.
- ⇒ Earth remains at a constant temperature (~50° F) and acts as an energy reservoir.
- ⇒ The physical pump mechanism at Carleton will be located under the new science building. This electrical work allows for circulation of the water in the pipes.
- ⇒ This allows Carleton to reduce our electricity usage in the summer and natural gas use for heating in the winter - saving money and reducing our dependence on alternative fuels.

Want to learn more about the physics of geothermal energy?

<https://apps.carleton.edu/geothermal/>



Department of Physics and Astronomy