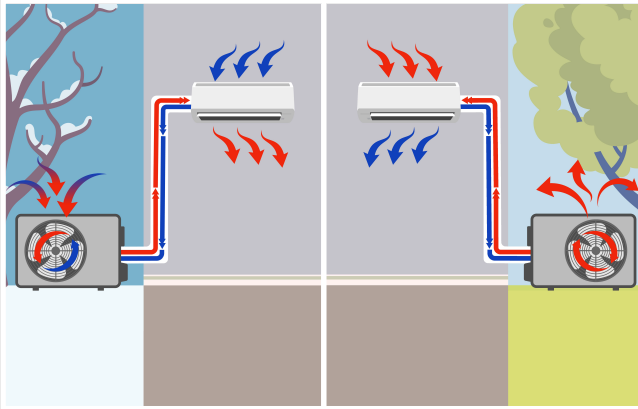


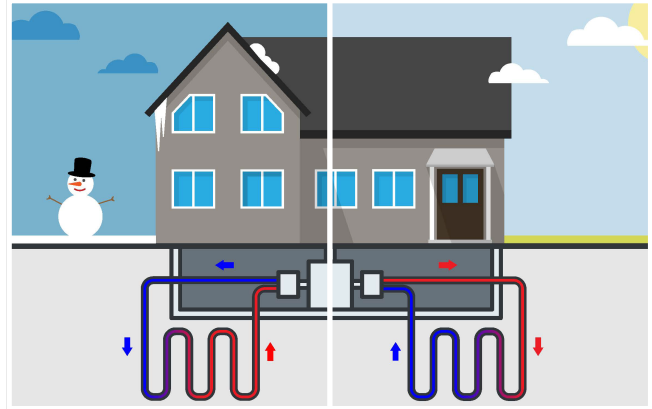
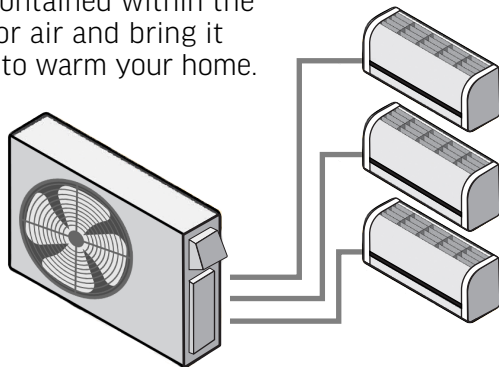
# A Homeowner's Guide to Heat Pumps

A heat pump is an all-in-one heating and cooling system that works year-round to keep you comfortable. These environmentally friendly systems are a great alternative to traditional electric heat sources and air conditioners -- and they can help you reduce your energy usage and lower your bill.

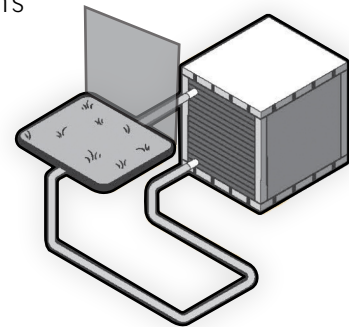
## Types of heat pumps



**Air-source heat pumps** use electricity to transfer energy between indoor and outdoor air. In the summer, they run like a regular air conditioning system. In the winter, they absorb the existing heat contained within the outdoor air and bring it inside to warm your home.



**Geothermal heat pumps** use solar energy that is stored in the ground. In the summer, they collect the unwanted heat in your home and move it to the cooler earth, while collecting the cooler underground air to distribute through your home. In the winter, they draw air from beneath the earth's cool surface and condense the air to raise the temperature.



## Heat pumps save energy

 **15 to 20**  
years of system life.

 **2 to 4**  
times more efficient  
than other heating  
and cooling options.

 **5°F**  
threshold at which heat  
pumps can operate



Heat pumps are a great investment for your home

Find a contractor near you with DTE's Energy Efficiency Directory at [dteenergy.com/EED](http://dteenergy.com/EED). Select "Heat Pump Replacement" to find contractors that sell and install heat pumps.