

Air Source Heat Pumps 101

Why should I consider an air source heat pump?

Air source heat pumps can offer your home or business a variety of benefits:



Energy bill savings. If you heat with propane, oil, or electric resistance heating, you could save hundreds of dollars a year on your heating bill by installing a heat pump.



Efficient all-in-one heating and cooling. Heat pumps provide heating, cooling, and dehumidification in the same system. Improve the comfort of your home year-round!



Flexibility. Heat pumps come in ductless and ducted varieties and can be installed to address different needs—whether you want to replace your existing system or just want to add heating or cooling to one or a few rooms.



Lower your carbon footprint. Recognized by the State as a clean heating and cooling technology, heat pumps will help you reduce your greenhouse gas emissions. Pair your heat pump with solar PV and go entirely green!

Consider cold climate air source heat pumps to be the **cleaner, greener alternative** to fossil fuels—an alternative that also provides high-efficiency air conditioning at the same time!

How do air source heat pumps work?

Rather than generating heat, a heat pump transfers it in and out of a building. Heat pumps use the same process that makes a refrigerator or air conditioner work: think about it as an air conditioner that can also run in reverse!

Heat pumps can be ductless, providing heating and cooling to individual rooms of your home, or ducted, using your existing ductwork to serve as a central heating and cooling system.

Heating Process



Cooling Process



People's Action for Clean Energy

Visit us at:

www.PACECleanEnergy.org

Is a Heat Pump Right for Me?



Do you heat with oil, propane, or electric resistance and want to save on your energy bill? Switching to a heat pump system could save you hundreds of dollars a year on your home heating bill even if you're not ready to replace your whole system yet.

Do you want to add air conditioning but don't have the ductwork for a central system (or just want to ditch the window units)? Ductless air source heat pumps can help you reclaim your windows from noisy window AC units and provide you with all of the benefits of a quiet, central air conditioning system without needing to spend thousands just to put in the ductwork!

Do you want to convert your home to gas but don't have access in your neighborhood? Consider a heat pump system to be a cleaner, greener alternative! Heat pumps can provide heat at comparable prices to gas with lower emissions—and you get high-efficiency air conditioning at the same time!

Do you want to have more control over the temperature in individual rooms? Ductless heat pumps are often referred to as “zoned home comfort solutions.” With ductless heat pumps, you can place indoor units in different zones of your home so that you only need to heat or cool the room that you're in.

Is your furnace or central AC system over 12 years old?

If so, your system may be approaching the end of its expected lifetime. Consider early retirement: replace your system proactively with a more efficient ducted or ductless air source heat pump—and there may be larger rebates available!

Do you want to reduce your carbon footprint? Heat pumps do not burn fossil fuels on site. Because they use electricity from the grid, their carbon footprint will decline as the grid deploys more wind and solar.



How Do I Get Started?

Get a Home Energy Solutions (HES) energy audit—it's an inexpensive way to not only get a checkup on your home, but also get some of the energy improvements done on the spot. Go to the link below, or scan the QR code to the right. Your HES auditor will also put you in touch with a contractor who can give you information and a quote for a heat pump.

Learn more at: <https://www.energizect.com/your-home/solutions-list/home-energy-solutions-core-services>



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