



Clean Heat
Electric Vehicles

NEEDHAM



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 an air source heat pump.



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



Flexibility. Air source 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.



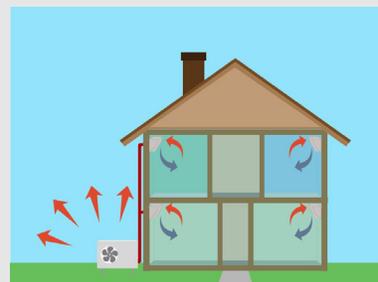
Lower your carbon footprint. Recognized by the State as a clean heating and cooling technology, heat pumps will help you reduce your greenhouse gas emissions. Pair your air source heat pump with solar and go entirely green!

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?

Heat pumps transfer heat in and out of a building rather than generating it. 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!

Air source 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.





Is an air source heat pump right for me?

Read through some of the questions below: if you answer “Yes” to any of these, contact your Solarize Plus coaches (contact info below) to learn more!

Do you heat with oil, propane, or electric resistance and want to save on your energy bill? Installing an air source 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 central air conditioning but don’t have the ductwork (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!

Does your home have hot and/or cold spots? No need to replace your whole system: a ductless air source heat pump can be installed in the zone of the hot or cold spot to provide extra heating or cooling.

Do you want to convert your home to gas but don’t have access in your neighborhood? Consider a heat pump system as a cleaner, greener alternative! Air source heat pumps can lower greenhouse gas emissions compared to gas—and you get high-efficiency AC at the same time!

Do you want to have more control over the temperature in individual rooms? Ductless air source heat pumps are often referred to as “zoned home comfort solutions.” With ductless air source 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 15 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!



Why pair solar electricity and heat pumps?

Solar PV and heat pumps are both energy-saving, clean energy technologies supported by a variety of incentives—and they’re a perfect fit together!

Power a heat pump with solar electricity and save even more! Solar electricity can be up to **40% cheaper** than electricity purchased from your utility today. Since heat pumps are already highly-efficient electric heating systems, homeowners using solar powered heat pumps will save even more.

Maximize emissions reductions. Heat pumps use heat from the outdoor air to heat and cool buildings. Powering heat pumps with renewable, carbon-free solar electricity can allow homes the ability to go completely green!

Questions or sign-up for more info

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Learn More

Visit www.masscec.com/learn-about-air-source-heat-pumps to learn more about the benefits of air source heat pumps and the incentives available.

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