

# Air Source Heat Pumps

Why they're a better choice — You compare



## Is it time to replace your heating and cooling system?

Looking to replace your heating system or need supplemental heating and cooling for a specific area or room in your home? Don't currently have an air conditioning system to keep your home cool during the warmer months? Cold-climate air source heat pumps are an efficient, cleaner energy option that keep you comfortable year-round, while potentially saving you money. An air source heat pump may be a better choice, with energy efficient operations delivering more energy than they use.

### Heating system comparison

CURRENT HEATING SYSTEM	AIR SOURCE HEAT PUMP BENEFITS
<b>Electric Resistance Heating (Baseboard)</b>	<ul style="list-style-type: none"><li>■ <b>LOWER ENERGY COSTS.</b> Air source heat pumps use electricity more efficiently for heating. They have been known to reduce annual electricity costs by an average of \$459 in the Northeast and Mid-Atlantic compared to electric resistance systems.<sup>1</sup></li><li>■ <b>ZONED TEMPERATURE CONTROL.</b> Air source heat pumps allow you to set individual temperatures in different rooms/zones throughout your home, using individual units.</li></ul>
<b>Natural Gas</b>	<ul style="list-style-type: none"><li>■ <b>CLEANER &amp; HEALTHIER.</b> With fewer emissions, an air source heat pump could greatly improve the air quality in your home.</li><li>■ <b>ZONED TEMPERATURE CONTROL.</b> Air source heat pumps allow you to set individual temperatures in different rooms/zones throughout your home.</li><li>■ <b>QUIETER.</b> Air source heat pumps are quieter to operate than conventional heating systems.</li></ul>
<b>Fuel Oil or Propane</b>	<ul style="list-style-type: none"><li>■ <b>LOWER ENERGY COSTS.</b> Air source heat pumps have been known to save an average of \$948 annually when replacing an oil system—or \$300 annually as a supplemental system, when the oil system is used infrequently.<sup>1</sup></li><li>■ <b>CLEANER, SAFER, AND HEALTHIER.</b> With no combustion and fewer emissions, an air source heat pump could greatly improve the air quality in your home.</li><li>■ <b>CONVENIENCE AND PEACE OF MIND.</b> No scheduling of fuel deliveries or worrying about locking in prices when you use electricity to power an air source heat pump.</li><li>■ <b>ZONED TEMPERATURE CONTROL.</b> Air source heat pumps allow you to set individual temperatures in different rooms/zones throughout your home.</li><li>■ <b>QUIETER.</b> Air source heat pumps are quieter to operate than conventional heating systems.</li></ul>



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## Cooling system comparison

CURRENT COOLING SYSTEM	AIR SOURCE HEAT PUMP BENEFITS
Central A/C	<ul style="list-style-type: none"><li>■ <b>ENERGY EFFICIENT OPERATIONS.</b> Air source heat pumps deliver more energy than they use by moving heat from inside to the outside. This allows you to cool your home two to four times as efficiently.</li><li>■ <b>NO AIR LEAKS.</b> Air source heat pumps are often ductless, whereas ducted central A/C systems can experience energy loss and inefficiencies from leaky ductwork.</li><li>■ <b>MORE COMFORT.</b> Air source heat pumps dehumidify better and more efficiently than central A/C systems, leaving you feeling more comfortable on humid summer days.</li><li>■ <b>LESS INTRUSIVE INSTALLATION.</b> The installation of a ductless air source heat pump system requires only a three-inch hole through the wall connecting indoor and outdoor units—rather than the extensive ductwork required by central A/C systems.</li><li>■ <b>ZONED TEMPERATURE CONTROL.</b> Air source heat pumps allow you to set individual temperatures in different rooms/zones throughout your home, using individual units.</li></ul>
Room/Window A/C	<ul style="list-style-type: none"><li>■ <b>LOWER ENERGY COSTS.</b> Air source heat pumps use electricity more efficiently for cooling. This has been known to reduce annual electricity costs over time compared to traditional room/window A/Cs.</li><li>■ <b>CONVENIENCE.</b> Air source heat pumps stay in one place, removing the need to take out window A/C units during colder months only to re-install them in the spring.</li><li>■ <b>QUIETER.</b> Air source heat pumps are quieter to operate than room and window A/C units.</li><li>■ <b>NO AIR LEAKS.</b> Room and window A/C units often experience air leaks through the windows in which they are installed. With an air source heat pump, you won't have any air leaks.</li><li>■ <b>SECURITY AND PEACE OF MIND.</b> Air source heat pump indoor units are installed on walls inside your home, unlike window A/Cs that leave your home vulnerable to potential intruders.</li></ul>

## Purchasing and installing an air source heat pump

Rebates and incentives are available to help qualifying customers reduce the upfront cost of purchasing and installing an air source heat pump. Check with your utility provider for available rebates, and ask an installation contractor if equipment manufacturers are currently offering incentives.



## Ready to get started?

Visit [nyserdera.ny.gov/ashp-contractor](https://nyserdera.ny.gov/ashp-contractor) to find a NYSERDA air source heat pump participating installer near you.