



DUCTLESS HEATING & COOLING

How does it work?

In the summer, a heat pump uses a refrigeration cycle to move heat from your home to the outside just like an air conditioner. In the winter, with the refrigeration cycle run in reverse, a heat pump moves heat from outdoors into your home.

- Indoor unit is an air handler, circulating room air across refrigerant coils.
- Outdoor unit is a compressor responsible for keeping coils hot or cold.



The advantages of ductless heat pumps

Used for decades in Europe and Asia, ductless mini-split heat pumps differ from traditional home heating and cooling systems because they:

- **Provide both heating and cooling through a single device—a heat pump**
Heat pumps have been used for decades, mainly in Southern climates.
- **Avoid ductwork**
Instead of difficult-to-install, leaky and bulky ductwork, ductless mini-split heat pumps use an *indoor unit* connected to an *outdoor unit* via *refrigerant lines* (which only need a three-inch hole in an outdoor wall for installation). Up to eight indoor units can be attached to one outdoor unit.
- **Allow for different climates in each room**
Each indoor unit can provide customized heating and cooling—using wall consoles, remote controls and smart phone apps—in each conditioned space.
- **Cut heating costs in half compared to conventional electric heating systems**
Because they transfer instead of generate heat, ductless mini-split heat pumps use 60% less energy than standard home electric resistance-based heating systems.
- **Cut cooling costs by 30% compared to conventional room air conditioners**
Ductless mini-split heat pumps use sophisticated compressors and fans that can adjust speeds to save energy.

Common Applications of Ductless Heat pumps

Ductless mini-split heat pumps are increasingly being used in these situations:

- Older homes with electric heating systems like baseboard, furnace, wall heaters, or electric radiant.
 - Homes with no ductwork (radiators or baseboard heat) and no central air previously.
 - Low system efficiency.
 - New construction of homes in areas with high fuel costs.
 - Additions or outbuildings where extending ductwork or cooling/heating capacity is not feasible.
 - Rooms that are not regularly occupied; an indoor unit can be turned off to save money.
 - Spaces adjacent to areas where ductwork would be exposed to harsher temperatures, like a guest room above a garage.
 - Older commercial buildings with no existing ductwork for air conditioning or expansions.
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REBATES AVAILABLE

Ductless heating and cooling systems are eligible for rebates from ECE.

- System must meet SEER2 and HSPF2 minimum ratings. Contact us for details.
- Rebates must be received by December 31, 2024.
- Rebates awarded on a first-come basis.

CONTACT US

To save energy and money, call your ECE energy expert at 1.800.254.7944 or visit eastcentralenergy.com.

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