




# Lincoln Electric Cooperative, Inc.

Your Touchstone Energy® Cooperative 

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## Residential Air Source Heat Pumps

Thank-you for your inquiry about air source heat pumps. Air source heat pumps are an energy efficient way to stay cool in the summer and warm in the winter.

Lincoln Electric Co-op offers \$750-\$1,500 in rebates to help offset the cost of purchasing and installing an approved system in your home. Here are answers to the most common questions.

### Q. How does an air source heat pump work?

A. A heat pump does not create heat, but rather it moves heat from one place to another. Your refrigerator is a heat pump that moves warm air from inside the box to outside making inside the box colder. An air source heat pump removes heat from the outside air and transfers it inside your home.

### Q. I've heard that air source heat pumps don't work well in this area.

A. Some older models don't perform well during the particularly cold periods of our winter months. Advanced technology has made the new heat pumps significantly more efficient than those installed just 5 years ago.



Figure 1

### Q. How do these systems extract heat from the air when it is below freezing outside?

A. Air source heat pumps have a back-up system that stages itself in. As it gets harder for the system to extract heat from the air this "auxiliary" or "strip" heat kicks in to ensure an adequate supply of warm air to maintain the inside temperature as determined by the thermostat setting. During periods of extreme cold, the system basically functions as an electric furnace.

### Q. How much can I save?

A. Most of the time the unit is moving heat-not creating it, so the only electricity being used is to run the compressor and fans. It will cost about the same to operate as a high efficiency natural gas furnace ... and much less than a propane or electric furnace. Obviously your lifestyle and the quality of the system will have a bearing on how much you can save.

### Q. How are these systems configured?

A. The heat pump itself is installed outside your home along with an indoor air handler that is placed in a closet, garage, basement, crawlspace, or utility

room. (see Fig. 1)

### Q. You mentioned cooling . . . is this feature included?

A. That's another reason why air source heat pumps are becoming so popular. The extraction process is reversible so cooling is built in.

### Q. Are these systems expensive?

A. They are similar in cost to the installation of a furnace due in part because of the need for duct work. Your Co-op will pay you a \$750-\$1,500.00 rebate for the purchase and installation of a

system that meets certain industry guidelines for efficiency and is properly installed.

### Q. How can I find out how much it will cost for my home?

A. You will need to talk with a heating-cooling contractor from our approved installer list. A homeowner can only receive our rebate if their system is installed by one of our approved installers.

### Q. What about Tax Credits?

A. Some models may be eligible for up to \$500 from the state of Montana. See form ENRG-C and talk to your contractor and financial advisor about federal tax credits.

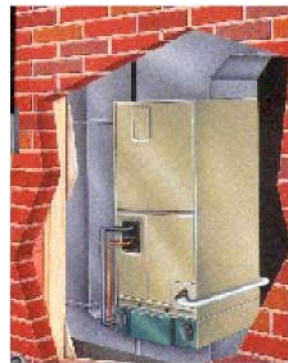



Figure 1



**Lincoln Electric  
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## Air Source Heat Pump Rebate

Thank you for inquiring about our energy efficient residential Air Source Heat Pump Rebate program. Lincoln Electric Cooperative will pay you a \$750 - \$1,500 rebate if you purchase and install a qualifying model in your home. The minimum efficiency ratings to qualify are a Heating Season Performance Factor (HSPF) of 8.5 and a Seasonal Energy Efficiency Rating (SEER) of 14.

**Note: A \$750 rebate will be paid when the majority of ductwork is located in the basement or a conditioned crawlspace. A \$1,500 rebate will be paid when the majority of ducts are installed in an unconditioned or vented crawlspace, and ducts are insulated and sealed to program requirements by an installer approved to do duct sealing (Must have Duct Sealing checked on Certified Installer List.)**

Here's how to qualify for the rebate:

1. Purchase a qualifying system and have it installed by a qualifying vendor on our certified installer list.
2. Fill out and sign the rebate form.
- 3a. Have your installer fill out the form verifying that the system meets the specifications.
- 3b. Have your installer attach the appropriate information as referenced in the form.

***Disclaimers: Lincoln Electric Cooperative hereby disclaims any and all implied or express warranties (including but not limited to implied warranties of merchantability or fitness for a particular purpose) and shall not be responsible for any representation or promise with respect to the equipment, materials, or labor required for the installation of the equipment on the premises, or the cost of such equipment, materials, and labor.***

***Release: As part of the consideration for this agreement, participant hereby releases and shall indemnify, hold harmless and defend Lincoln Electric Cooperative from any and all claims, losses, harm, costs, liabilities, damages, and expenses (including attorney's fees) of any nature whatsoever arising directly or indirectly out of or in connection with the installation of space heating equipment at the premises or any material and labor required for such installation.***

***Verification: Lincoln Electric Cooperative shall have the right to verify equipment installed on the premises. These residential energy efficiency programs are ongoing as part of Lincoln Electric Cooperative's continued commitment to energy efficiency. The programs are subject to change without notice.***

