

Flathead Electric

Your Co-op
Community...Integrity...Reliability

2510 Hwy 2 East, Kalispell, MT 59901
406-751-4483 or 800-735-8489
www.flatheadelectric.com

Air Source Heat Pumps

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

Flathead Electric Co-op offers a \$1,000.00 rebate to help offset the cost of purchasing and installing an approved system in your home.

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.

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, basically the system 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.

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 \$1,000.00 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 \$1,000 rebate if their system is installed by one of our approved installers.

Q. What about Tax Credits?

A. You may be eligible for up to \$500 from the state of Montana (\$1,000 per couple). See form ENRG-C. The Federal Tax Credit is 30% of the total cost up to \$1,500 based on all efficiency improvements combined. Talk to your financial advisor about specific details.

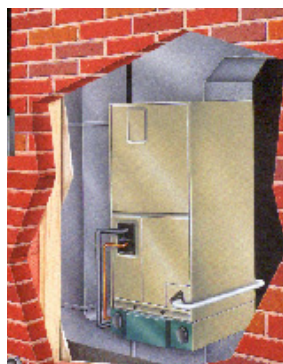


Figure 1



Figure 1

\$1,000 Residential Air Source Heat Pump Rebate

Thank you for inquiring about our energy efficient Residential Air Source Heat Pump Rebate program. Flathead Electric Cooperative will pay you a \$1000 rebate if you purchase and install a qualifying model.

As of January 1, 2008 and until further notice the minimum efficiency ratings are a Heating Season Performance Factor (HSPF) of 8.5 and a Seasonal Energy Efficiency Rating (SEER) of 14.

Note:

- The majority of ductwork must be located in the basement or a conditioned crawlspace.
- If the crawlspace has vents they must be sealed.
- Installer must be PTCS certified.
- A maximum of two rebates allowed for residences greater than 4,500 sq. ft.

Here's how to qualify for the rebate:

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

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

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\$1,000 Residential Air Source Heat Pump Rebate

Date ____/____/____

Name and Address for Rebate Check:

Account # _____

Name: _____

Address: _____ Phone: _____

_____ City State Zip

Name and Address where installed:

Name: _____

Address: _____ Phone: _____

_____ City State Zip

To be filled out by approved installer:

Manufacturer: _____ (attach a copy of the invoice)

I have attached copies of:

- New Heat Pump Start-Up Form
- Balance Point Worksheet
- Copy of ARI Certificate
- Vendor Invoices
- Heat Loss/Gain Calculations (Manual J or Easy J)

Home Details:

- Site Built
 - Crawl Space
 - Manufactured Home
 - Half Basement
 - Full Basement
- Build Date:
- Pre 1980
 - 1980 - 1982
 - Post 1992
 - New Construction

If retrofit, please list previous heat source: _____

Installed HSPF rating: _____ (minimum 8.5) **SEER rating:** _____ (minimum 14)

Installer Name: _____

(from Approved Installer List)

Note: Installer incentive of \$250 will be paid to company unless specified otherwise.

Installer Signature: _____ PTCS# _____

I certify that this system was installed in accordance with Flathead Electric Cooperative specifications.

I certify that this air source heat pump was purchased and installed at the above address. I will allow a representative of Flathead Electric Cooperative, Inc., to verify installation of the heat pump. I understand that it is my responsibility to install the heat pump to meet all applicable codes. Flathead Electric is free from all liability arising from the installation or operation of this heat pump.

Buyer Signature Date

Co-op Representative Signature Date

* Allow up to 4 weeks for processing.